ORDER NO. VSD9601M601

Service Manual

S VHS 625 VHS PAL Hi-Fi

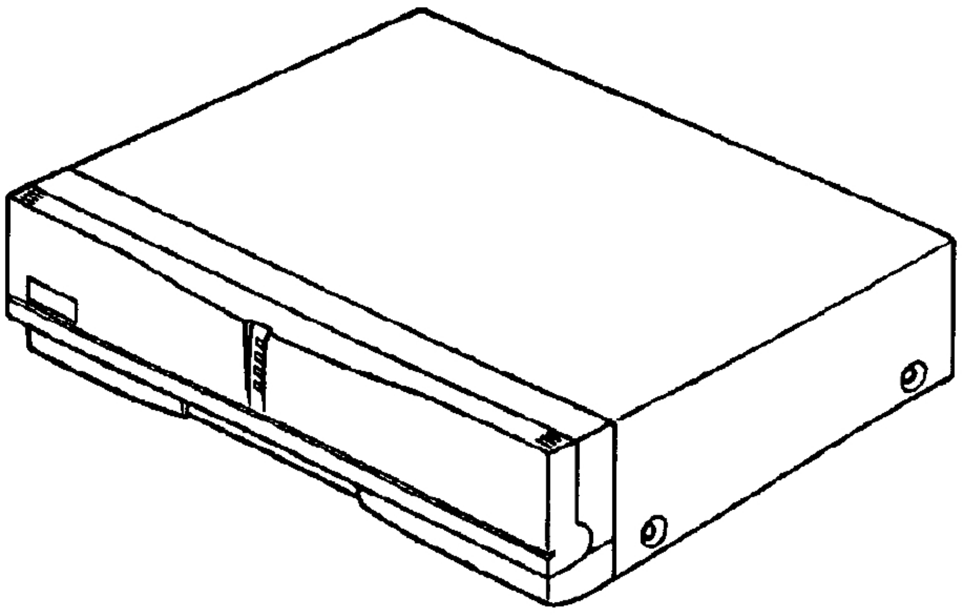
Video Cassette Recorder

AG-4700EY
AG-4700BY

K-MECHANISM

Schematic / Circuit Board Diagram
Exploded Views & Replacement Parts List

The mechanical chassis of this model is K Mechancal Chassis. Therefore refer to the Service Manual for K Mechanism. (Order No. VSD9402M632)



Panasonic

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Specifications

Power Source:	220–240 V AC 50–60 Hz		
Power Consumption:	41 watts		
Video Recording System:	2 rotary heads, helical scanning system		
Video Heads:	4 heads		
Tape Speed:	SP; 23.39 mm/sec. LP; 11.7 mm/sec.		
Tape Format:	VHS/S-VHS tape		
Record/Playback Time:	SP; 240 min. with NV-E240 LP; 480 min. with NV-E240	SP; 260 min. with NV-SE260 LP; 520 min. with NV-SE260	
VIDEO			
Television System:	CCIR; 625 lines, 50 fields, PAL colour signal		
Modulation System:	Luminance; FM azimuth recording Colour signal; converted subcarrier phase shift recording		
Input Level:	AV1/AV2;	1.0 Vp-p,	75 ohm, terminated
	VIDEO IN (AV3) (PHONO);	1.0 Vp-p,	75 ohm, terminated
	S-VIDEO IN (AV3);	1.0 Vp-p,	75 ohm, terminated
Output Level:	AV1/AV2;	1.0 Vp-p,	75 ohm, terminated
	VIDEO OUT (PHONO);	1.0 Vp-p,	75 ohm, terminated
	S-VIDEO OUT;	1.0 Vp-p,	75 ohm, terminated
	RF Modulated;	UHF channel 36 (±6),	75 ohm
AUDIO			
Input Level:	AV1/AV2;	−6 dBV,	more than 10 kohm
	AUDIO IN (AV3) (PHONO);	−10 dBV,	more than 47 kohm
	MICROPHONE (M3);	−70 dBV	
Output Level:	AV1/AV2;	−6 dBV,	less than 1 kohm
	AUDIO OUT (PHONO);	−8 dBV,	less than 1 kohm
	HEADPHONES;	−30 dBV,	8 ohm
Audio Track:	1 track (Normal-mono only), 2 channels (Hi-Fi sound-stereo)		
Video Horizontal Resolution:	Colour; more than 240 lines (VHS/SP) more than 400 lines (S-VHS/S-Video Socket)		
Dynamic Range:	Audio; more than 90 dB (Hi-Fi audio track)		
Audio Frequency Response:	20 Hz–20 kHz		
Wow and Flutter:	0.005% Wrms/Hi-Fi		
Operating Temperature:	5°C–40°C		
Operating Humidity:	35%–80%		
Weight:	7.0 kg		
Dimensions:	430 (W) × 118 (H) × 395 (D) mm		
Standard Accessories:	1 pc. Remote Controller 2 pcs. "R6" Size Batteries 2 pcs. 21 pin—Phono Transformer Adaptors (Input/Output) 1 pc. AC Mains Lead 1 pc. Edit Cable		

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

1. SERVICE INFORMATION

1-1. UPPER CYLINDER REPLACEMENT

A. UPPER CYLINDER DISASSEMBLY

1) Remove the Top Panel.
2) Remove the Screw (A) and Earth Plate.
3) Lift up the Upper Cylinder.

Note: Do not remove 3 Screws on the Upper Cylinder.

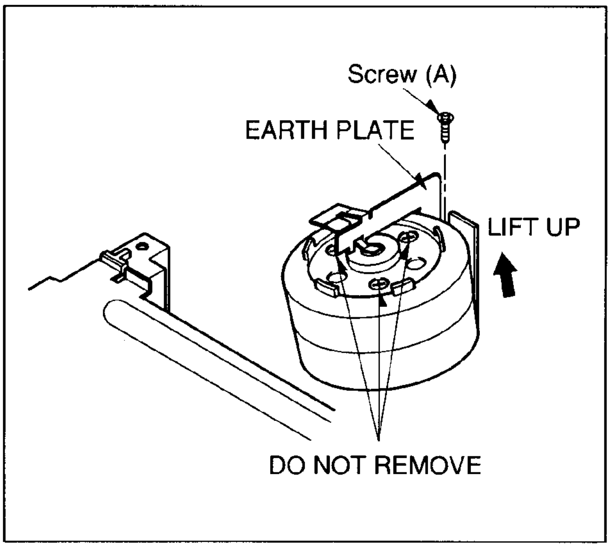

Screw (A)
EARTH PLATE
LIFT UP
DO NOT REMOVE

Fig. S1

Do not remove the Rotor Magnet which fixed by 3 screws on the Upper Cylinder.

If it is removed, refer to following method.

1) Install the Rotor Magnet so that the hole (C) on the Rotor Magnet fits to the small projection (D) on bottom of the Upper Cylinder.
2) Tighten 3 screws on top of the Upper Cylinder.

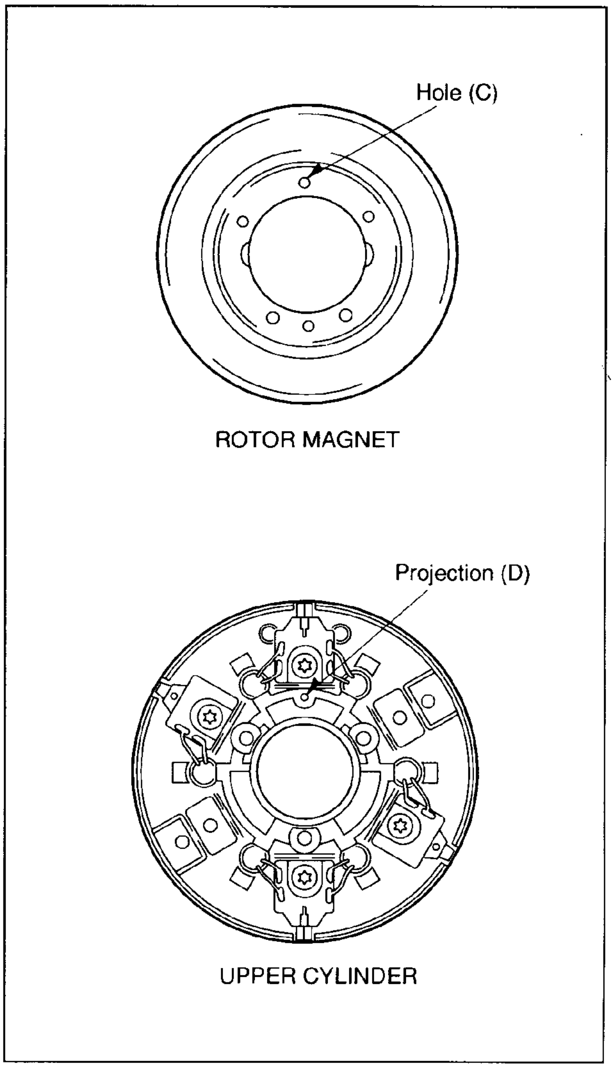

Hole (C)
ROTOR MAGNET
Projection (D)
UPPER CYLINDER

Fig. S2

B. UPPER CYLINDER ASSEMBLY

When reassembling, perform the steps in the reverse order of the DISASSEMBLY METHOD.

2. COMPARISON CHART

2-1. COMPARISON CHART for AG-4700EY

The following charts show the difference between the basic model AG-4700E and the new model AG-4700EY.

Note: IMPORTANT SAFETY NOTICE

Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components, use only the same type.

MECHANICAL REPLACEMENT PARTS FOR AG-4700EY (A)=ADDED, (C)=CHANGED, (D)=DELETED

REF NO.	AG-4700E	AG-4700EY	PCS	PARTS NAME & DESCRIPTIONS	REMARKS
5(1)	VXL2250	VML2902	1	OPENER LEVER UNIT	(C)
9(1)	VXL2380	VXL2440	1	CLEANER ARM UNIT	(C)
12(1)	VBS0050	VBS0052	1	FE HEAD	(C)
20(1)	VED0205	VED0217	1	A/C HEAD (1) UNIT	(C)
26(1)	VMA8763	VMA9158	1	HEAD AMP MOUNT ANGLE(L)	(C)
48(1)	VXL2243	VXL2394	1	TAKE-UP TENSION REGULATOR ARM UNIT	(C)
60(1)	VXR0221	VXR0236	1	SUPPLY REEL TABLE UNIT	(C)
61(1)	VXR0222	VXR0237	1	TAKE-UP REEL TABLE UNIT	(C)
62(1)	VXS0113	VXS0241	1	EARTH PLATE	(C)
65(1)	2SB941PSW	2SB1370YD01E	1	POWER TRANSISTOR	(C)
70(1)	VEG1133	VEG1355	1	CYLINDER UNIT	(C)
71(1)	VEH0651	VXP1561	1	UPPER CYLINDER UNIT	(C)
72(1)	VSC3940	VSC4137	1	CYLINDER SHIELD PLATE	(C)
80(1)	-------	VML2680	0→1	RELEASE LEVER	(A)
81(1)	-------	VMB2013	0→1	RELEASE SPRING	(A)
B5(1)	VHD0553	-------	2→0	SCREW	(D)
B8(1)	XTV26+8F	XTV26+8F	2→1	SCREW	(C)
B12(1)	-------	XTV26+10F	0→1	SCREW	(A)
106(2)	VXP1350	VXP1519	1	ROTOR UNIT	(C)
237(3)	VJH0683	VJH0827	1	RF ANT TERMINAL PLATE	(C)
300(4)	VQT6023	VQT6295	1	OPERATING INSTRUCTIONS (ENGLISH/GERMAN)	(C)
	VQT6024	VQT6296	1	OPERATING INSTRUCTIONS (FRENCH/ITALIAN)	(C)
	VQT6025	VQT6297	1	OPERATING INSTRUCTIONS (SPANISH)	(C)
317(4)	VPG7853	VPG8205	1	PACKING CASE	(C)

ELECTRICAL REPLACEMENT PARTS FOR AG-4700EY (A)=ADDED, (C)=CHANGED, (D)=DELETED

REF NO.	AG-4700E	AG-4700EY	PCS	PARTS NAME & DESCRIPTIONS	REMARKS
	VEP03A37S	VEP03C01C	1	MAIN C.B.A.	(C)
	VEP07749A	VEP07801B	1	TV DEMODULATOR C.B.A.	(C)
	VEP03A72A	VEP03A72E	1	INPUT/OUTPUT PACK C.B.A.	(C)
	VEP04447E	VEP04447PS	1	HIFI AUDIO PACK C.B.A.	(C)
	VEP06926C	VEP06B45A	1	VR C.B.A.	(C)
	VEP07739G	VEP07739X	1	TIMER C.B.A.	(C)
	VEX0126	VEX0235	1	CYLINDER DRIVE C.B.A.	(C)
	ENC17984	-------	1→0	RF CONVERTER	(D)
	ENV578D7H6	ENG47210G	1	TUNER	(C)

2-2. COMPARISON CHART for AG-4700BY

The following charts show the difference between the basic model AG-4700B and the new model AG-4700BY.

Note: IMPORTANT SAFETY NOTICE

Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components, use only the same type.

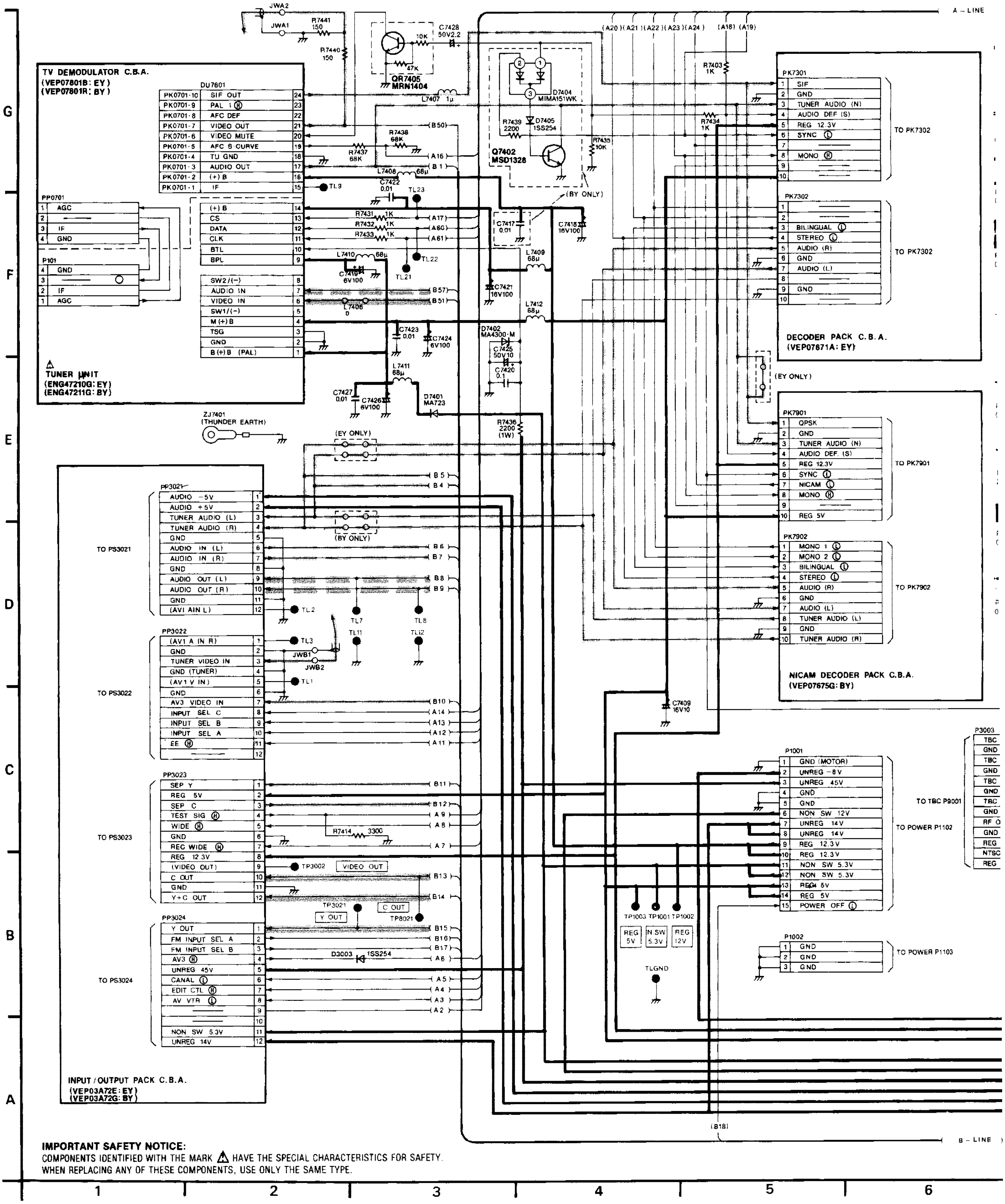
MECHANICAL REPLACEMENT PARTS FOR AG-4700EY (A)=ADDED, (C)=CHANGED, (D)=DELETED

REF NO.	AG-4700B	AG-4700BY	PCS	PARTS NAME & DESCRIPTIONS	REMARKS
5(1)	VXL2250	VML2902	1	OPENER LEVER UNIT	(C)
9(1)	VXL2380	VXL2440	1	CLEANER ARM UNIT	(C)
12(1)	VBS0050	VBS0052	1	FE HEAD	(C)
20(1)	VED0205	VED0217	1	A/C HEAD (1) UNIT	(C)
26(1)	VMA8763	VMA9158	1	HEAD AMP MOUNT ANGLE(L)	(C)
48(1)	VXL2243	VXL2394	1	TAKE-UP TENSION REGULATOR ARM UNIT	(C)
60(1)	VXR0221	VXR0236	1	SUPPLY REEL TABLE UNIT	(C)
61(1)	VXR0222	VXR0237	1	TAKE-UP REEL TABLE UNIT	(C)
62(1)	VXS0113	VXS0241	1	EARTH PLATE	(C)
65(1)	2SB941PSW	2SB1370YD01E	1	POWER TRANSISTOR	(C)
70(1)	VEG1133	VEG1355	1	CYLINDER UNIT	(C)
71(1)	VEH0651	VXP1561	1	UPPER CYLINDER UNIT	(C)
72(1)	VSC3940	VSC4137	1	CYLINDER SHIELD PLATE	(C)
80(1)	-------	VML2680	0→1	RELEASE LEVER	(A)
81(1)	-------	VMB2013	0→1	RELEACE SPRING	(A)
B5(1)	VHD0553	-------	2→0	SCREW	(D)
B8(1)	XTV26+8F	XTV26+8F	2→1	SCREW	(C)
B12(1)	-------	XTV26+10F	0→1	SCREW	(A)
106(2)	VXP1350	VXP1519	1	ROTOR UNIT	(C)
237(3)	VJH0683	VJH0827	1	RF ANT TERMINAL PLATE	(C)
300(4)	VQT6026	VQT6291	1	OPERATING INSTRUCTIONS (ENGLISH)	(C)
317(4)	VPG7854	VPG8207	1	PACKING CASE	(C)

ELECTRICAL REPLACEMENT PARTS FOR AG-4700EY (A)=ADDED, (C)=CHANGED, (D)=DELETED

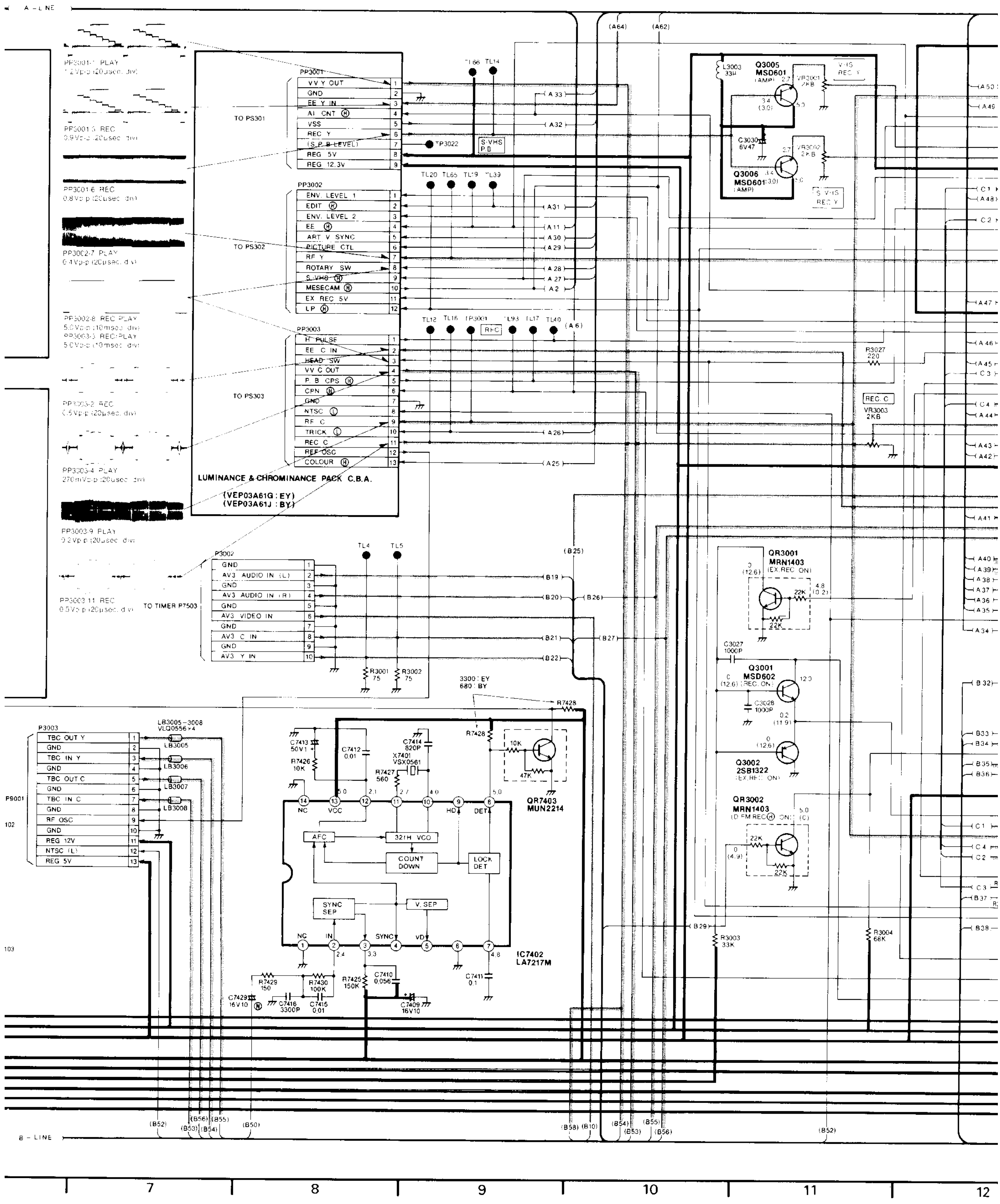
REF NO.	AG-4700B	AG-4700BY	PCS	PARTS NAME & DESCRIPTIONS	REMARKS
	VEP03A37T	VEP03C01E	1	MAIN C.B.A.	(C)
	VEP07680K	VEP07801R	1	TV DEMODULATOR C.B.A.	(C)
	VEP03A72D	VEP03A72G	1	INPUT/OUTPUT PACK C.B.A.	(C)
	VEP04447E	VEP04447PS	1	HIFI AUDIO PACK C.B.A.	(C)
	VEP06926C	VEP06B45A	1	VR C.B.A.	(C)
	VEP07739Q	VEP07739AC	1	TIMER C.B.A.	(C)
	VEX0126	VEX0235	1	CYLINDER DRIVE C.B.A.	(C)
	ENC17990	-------	1→0	RF CONVERTER	(D)
	ENV87837H3Y	ENG47211G	1	TUNER	(C)

3. LUMINANCE & CHROMINANCE SECTION IN MAIN SHEMATIC DIAGRAM


A – LINE
B – LINE
TV DEMODULATOR C.B.A.
(VEP07801B: EY)
(VEP07801R: BY)
DU7601
PK0701-10 SIF OUT 24
PK0701-9 PAL 1 Ⓗ 23
PK0701-8 AFC DEF 22
PK0701-7 VIDEO OUT 21
PK0701-6 VIDEO MUTE 20
PK0701-5 AFC S CURVE 19
PK0701-4 TU GND 18
PK0701-3 AUDIO OUT 17
PK0701-2 (+) B 16
PK0701-1 IF 15
PP0701
AGC
IF
GND
P101
(+) B
CS
DATA
CLK
BTL
BPL
SW2/(−)
AUDIO IN
VIDEO IN
SW1/(−)
M (+) B
TSG
GND
B (+) B (PAL)
TUNER UNIT
(ENG47210G: EY)
(ENG47211G: BY)
ZJ7401
(THUNDER EARTH)
JWA2
JWA1
R7441 150
R7440 150
QR7405 MRN1404
10K
47K
C7428 50V2.2
L7407 1μ
R7438 68K
R7437 68K
L7408 68μ
C7422 0.01
TL9
TL23
R7431 1K
R7432 1K
R7433 1K
L7410 68μ
C7419 6V100
TL22
TL21
L7406
C7423 0.01
C7424 6V100
L7411 68μ
C7427 0.01
C7426 6V100
D7401 MA723
D7404 MIMA151WK
R7439 2200
D7405 1SS254
R7435 10K
Q7402 MSD1328
(BY ONLY)
C7417 0.01
C7418 16V100
L7409 68μ
C7421 16V100
L7412 68μ
D7402 MA4300-M
C7425 50V10
C7420 0.1
R7436 2200 (1W)
R7403 1K
R7434 1K
(A20) (A21) (A22) (A23) (A24) (A18) (A19)
B50 A16 B1 A17 A60 A61 B57 B51
PK7301
1 SIF
2 GND
3 TUNER AUDIO (N)
4 AUDIO DEF (S)
5 REG 12.3V
6 SYNC Ⓛ
7
8 MONO Ⓗ
9
10
TO PK7302
PK7302
1
2
3 BILINGUAL Ⓛ
4 STEREO Ⓛ
5 AUDIO (R)
6 GND
7 AUDIO (L)
8
9 GND
10
TO PK7302
DECODER PACK C.B.A.
(VEP07671A: EY)
(EY ONLY)
PK7901
1 QPSK
2 GND
3 TUNER AUDIO (N)
4 AUDIO DEF (S)
5 REG 12.3V
6 SYNC Ⓛ
7 NICAM Ⓛ
8 MONO Ⓗ
9
10 REG 5V
TO PK7901
PK7902
1 MONO 1 Ⓛ
2 MONO 2 Ⓛ
3 BILINGUAL Ⓛ
4 STEREO Ⓛ
5 AUDIO (R)
6 GND
7 AUDIO (L)
8 TUNER AUDIO (L)
9 GND
10 TUNER AUDIO (R)
TO PK7902
NICAM DECODER PACK C.B.A.
(VEP07675G: BY)
C7409 16V10
(EY ONLY)
(BY ONLY)
B5 B4 B6 B7 B8 B9
PP3021
AUDIO −5V 1
AUDIO +5V 2
TUNER AUDIO (L) 3
TUNER AUDIO (R) 4
GND 5
AUDIO IN (L) 6
AUDIO IN (R) 7
GND 8
AUDIO OUT (L) 9
AUDIO OUT (R) 10
GND 11
(AV1 AIN L) 12
TO PS3021
TL2 TL7 TL8 TL11 TL12 TL3 TL1
JWB1 JWB2
PP3022
(AV1 A IN R) 1
GND 2
TUNER VIDEO IN 3
GND (TUNER) 4
(AV1 V IN) 5
GND 6
AV3 VIDEO IN 7
INPUT SEL C 8
INPUT SEL B 9
INPUT SEL A 10
EE Ⓗ 11
12
TO PS3022
B10 A14 A13 A12 A11
PP3023
SEP Y 1
REG 5V 2
SEP C 3
TEST SIG Ⓗ 4
WIDE Ⓗ 5
GND 6
REC WIDE Ⓗ 7
REG 12.3V 8
(VIDEO OUT) 9
C OUT 10
GND 11
Y+C OUT 12
TO PS3023
B11 B12 A9 A8 A7 B13 B14
R7414 3300
TP3002 VIDEO OUT
TP3021 Y OUT
C OUT TP8021
PP3024
Y OUT 1
FM INPUT SEL A 2
FM INPUT SEL B 3
AV3 Ⓗ 4
UNREG 45V 5
CANAL Ⓛ 6
EDIT CTL Ⓗ 7
AV VTR Ⓛ 8
9
10
NON SW 5.3V 11
UNREG 14V 12
TO PS3024
B15 B16 B17 A6 A5 A4 A3 A2
D3003 1SS254
INPUT / OUTPUT PACK C.B.A.
(VEP03A72E: EY)
(VEP03A72G: BY)
P1001
1 GND (MOTOR)
2 UNREG −8V
3 UNREG 45V
4 GND
5 GND
6 NON SW 12V
7 UNREG 14V
8 UNREG 14V
9 REG 12.3V
10 REG 12.3V
11 NON SW 5.3V
12 NON SW 5.3V
13 REG 5V
14 REG 5V
15 POWER OFF Ⓛ
TO TBC P9001
TO POWER P1102
P3003
TBC GND TBC GND TBC GND TBC GND RF O GND NTSC REG
TP1003 TP1001 TP1002
REG 5V
N SW 5.3V
REG 12V
TLGND
P1002
1 GND
2 GND
3 GND
TO POWER P1103
(B18)
G F E D C B A
1 2 3 4 5 6

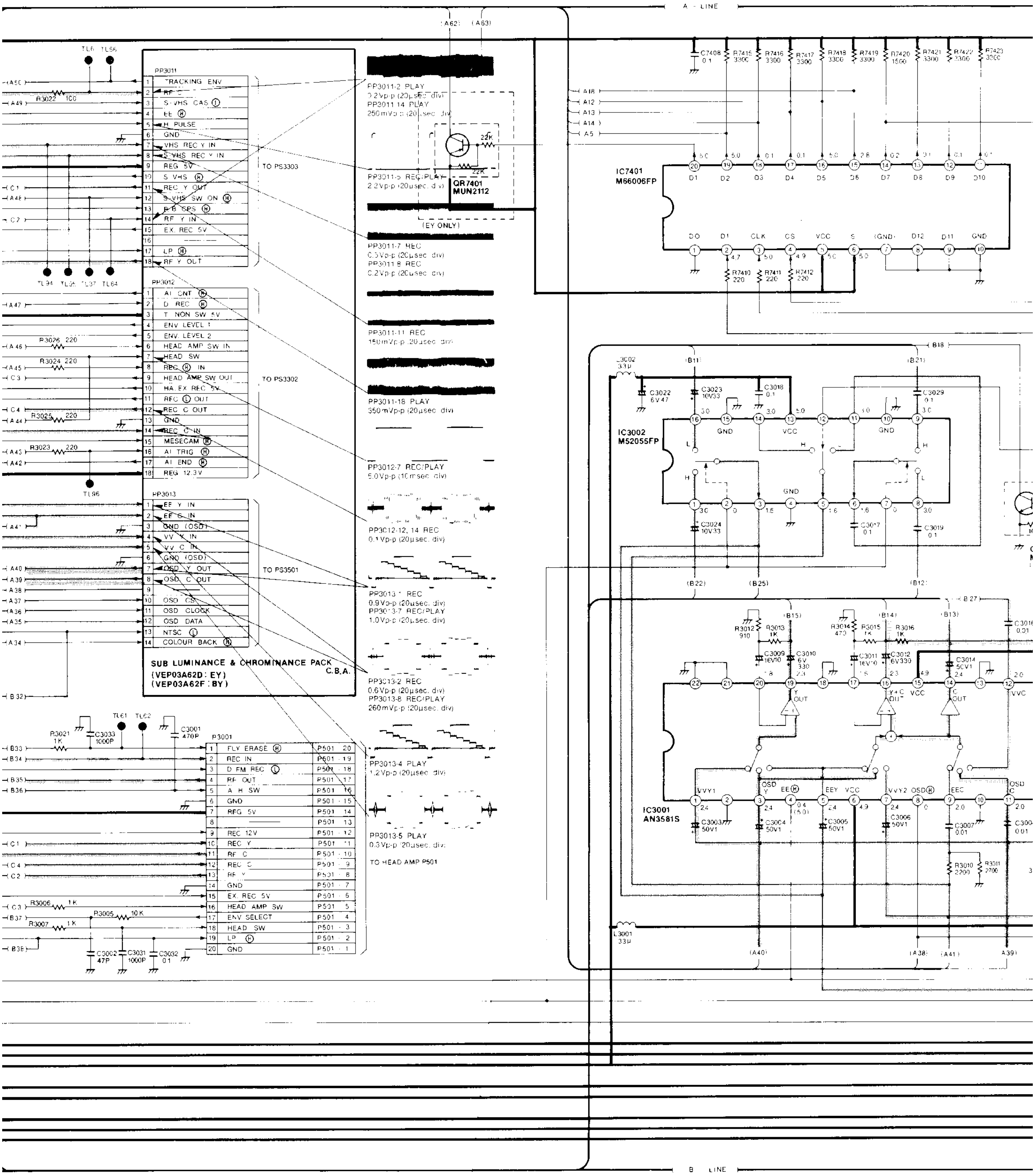
IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.


A – LINE
B – LINE
PP3001-1 PLAY
1.2Vp-p (20μsec. div)
PP3001-3 REC
0.9Vp-p (20μsec. div)
PP3001-6 REC
0.8Vp-p (20μsec. div)
PP3002-7 PLAY
0.4Vp-p (20μsec. div)
PP3002-8 REC/PLAY
5.0Vp-p (10msec. div)
PP3003-3 REC/PLAY
5.0Vp-p (10msec. div)
PP3003-2 REC
0.5Vp-p (20μsec. div)
PP3003-4 PLAY
270mVp-p (20μsec. div)
PP3003-9 PLAY
0.2Vp-p (20μsec. div)
PP3003-11 REC
0.5Vp-p (20μsec. div)
PP3001
VV Y OUT
GND
EE Y IN
AI CNT Ⓗ
VSS
REC Y
(S.P.B LEVEL)
REG 5V
REG 12.3V
TO PS301
PP3002
ENV. LEVEL 1
EDIT Ⓗ
ENV. LEVEL 2
EE Ⓗ
ART. V. SYNC
PICTURE CTL
RF Y
ROTARY SW
S-VHS Ⓗ
MESECAM Ⓗ
EX REC 5V
LP Ⓗ
TO PS302
PP3003
H. PULSE
EE C IN
HEAD SW
VV C OUT
P. B CPS Ⓗ
CPN Ⓗ
GND
NTSC Ⓛ
RF C
TRICK Ⓛ
REC C
REF OSC
COLOUR Ⓗ
TO PS303
LUMINANCE & CHROMINANCE PACK C.B.A.
(VEP03A61G : EY)
(VEP03A61J : BY)
TL66 TL14
TP3022
S-VHS P.B
TL20 TL65 TL19 TL39
TL12 TL16 TP3001 REC TL93 TL17 TL40
A33 A32 A31 A11 A30 A29 A28 A27 A2 A26 A25 A6
A64 A62
P3002
GND
AV3 AUDIO IN (L)
GND
AV3 AUDIO IN (R)
GND
AV3 VIDEO IN
GND
AV3 C IN
GND
AV3 Y IN
TO TIMER P7503
TL4 TL5
R3001 75
R3002 75
B19 B20 B21 B22 B25 B26 B27
P3003
TBC OUT Y
GND
TBC IN Y
GND
TBC OUT C
GND
TBC IN C
GND
RF OSC
GND
REG 12V
NTSC (L)
REG 5V
P9001
LB3005 – 3008
VLQ0556 × 4
LB3005 LB3006 LB3007 LB3008
3300 : EY
680 : BY
R7428
R7428
QR7403
MUN2214
10K 47K
C7413 50V1
C7412 0.01
C7414 820P
X7401 VSX0561
R7426 10K
R7427 560
NC VCC HD DET
AFC
321H VCO
COUNT DOWN
LOCK DET
SYNC SEP
V. SEP
NC IN SYNC VD
IC7402
LA7217M
R7429 150
R7430 100K
R7425 150K
C7410 0.056
C7411 0.1
C7429 16V10
C7416 3300P
C7415 0.01
C7409 16V10
L3003 33H
Q3005 MSD601 (AMP)
VR3001 2KB
V-HS REC Y
C3030 6V47
Q3006 MSD601 (AMP)
VR3002 2KB
S-VHS REC Y
R3027 220
REC C
VR3003 2KB
QR3001 MRN1403 (EX.REC ON)
22K 22K
C3027 1000P
Q3001 MSD602 (REC ON)
C3028 1000P
Q3002 2SB1322 (EX.REC ON)
QR3002 MRN1403 (D.FM.REC Ⓗ ON)
R3003 33K
R3004 68K
A50 A49 A48 A47 A46 A45 A44 A43 A42 A41 A40 A39 A38 A37 A36 A35 A34
C1 C2 C3 C4
B32 B33 B34 B35 B36 B37 B38 B29
B52 B56 B53 B54 B55 B50 B58 B10 B54 B53 B55 B56 B52
102
103
7 8 9 10 11 12

VIDEO MAIN SIGNAL PATH IN REC

VIDEO MAIN SIGNAL PATH IN PLA


A - LINE
PP3011
TRACKING ENV
RF C
S-VHS CAS Ⓛ
EE Ⓗ
H PULSE
GND
VHS REC Y IN
S-VHS REC Y IN
REG 5V
S VHS Ⓗ
REC Y OUT
S-VHS SW ON Ⓗ
B/B CPS Ⓗ
RF Y IN
EX. REC 5V
LP Ⓗ
RF Y OUT
TO PS3303
PP3012
AI CNT Ⓗ
D. REC Ⓗ
T. NON SW 5V
ENV LEVEL 1
ENV LEVEL 2
HEAD AMP SW IN
HEAD SW
REC Ⓗ IN
HEAD AMP SW OUT
HA EX REC 5V
REC Ⓛ OUT
REC C OUT
GND
REC C IN
MESECAM Ⓗ
AI TRIG Ⓗ
AI END Ⓗ
REG 12.3V
TO PS3302
PP3013
EE Y IN
EE C IN
GND (OSD)
VV Y IN
VV C IN
GND (OSD)
OSD Y OUT
OSD C OUT
OSD CS
OSD CLOCK
OSD DATA
NTSC Ⓛ
COLOUR BACK Ⓗ
TO PS3501
SUB LUMINANCE & CHROMINANCE PACK
C.B.A.
(VEP03A62D: EY)
(VEP03A62F: BY)
P3001
FLY ERASE Ⓗ
REC IN
D. FM REC Ⓛ
RF OUT
A. H SW
GND
REG 5V
REC 12V
REC Y
RF C
REC C
RF Y
GND
EX. REC 5V
HEAD AMP SW
ENV SELECT
HEAD SW
LP Ⓗ
GND
PP3011-2 PLAY
0.2Vp-p (20μsec. div)
PP3011-14 PLAY
250mVp-p (20μsec. div)
PP3011-5 REC/PLAY
2.2Vp-p (20μsec. div)
QR7401
MUN2112
(EY ONLY)
PP3011-7 REC
0.5Vp-p (20μsec. div)
PP3011-8 REC
0.2Vp-p (20μsec. div)
PP3011-11 REC
150mVp-p (20μsec. div)
PP3011-18 PLAY
350mVp-p (20μsec. div)
PP3012-7 REC/PLAY
5.0Vp-p (10msec. div)
PP3012-12, 14 REC
0.1Vp-p (20μsec. div)
PP3013-1 REC
0.9Vp-p (20μsec. div)
PP3013-7 REC/PLAY
1.0Vp-p (20μsec. div)
PP3013-2 REC
0.6Vp-p (20μsec. div)
PP3013-8 REC/PLAY
260mVp-p (20μsec. div)
PP3013-4 PLAY
1.2Vp-p (20μsec. div)
PP3013-5 PLAY
0.3Vp-p (20μsec. div)
TO HEAD AMP P501
IC7401
M66006FP
IC3002
M52055FP
IC3001
AN3581S
L3002 33μ
L3001 33μ
B LINE

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

12 | 13 | 14 | 15 | 16 | 17

PATH IN REC MODE
PATH IN PLAYBACK MODE

AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

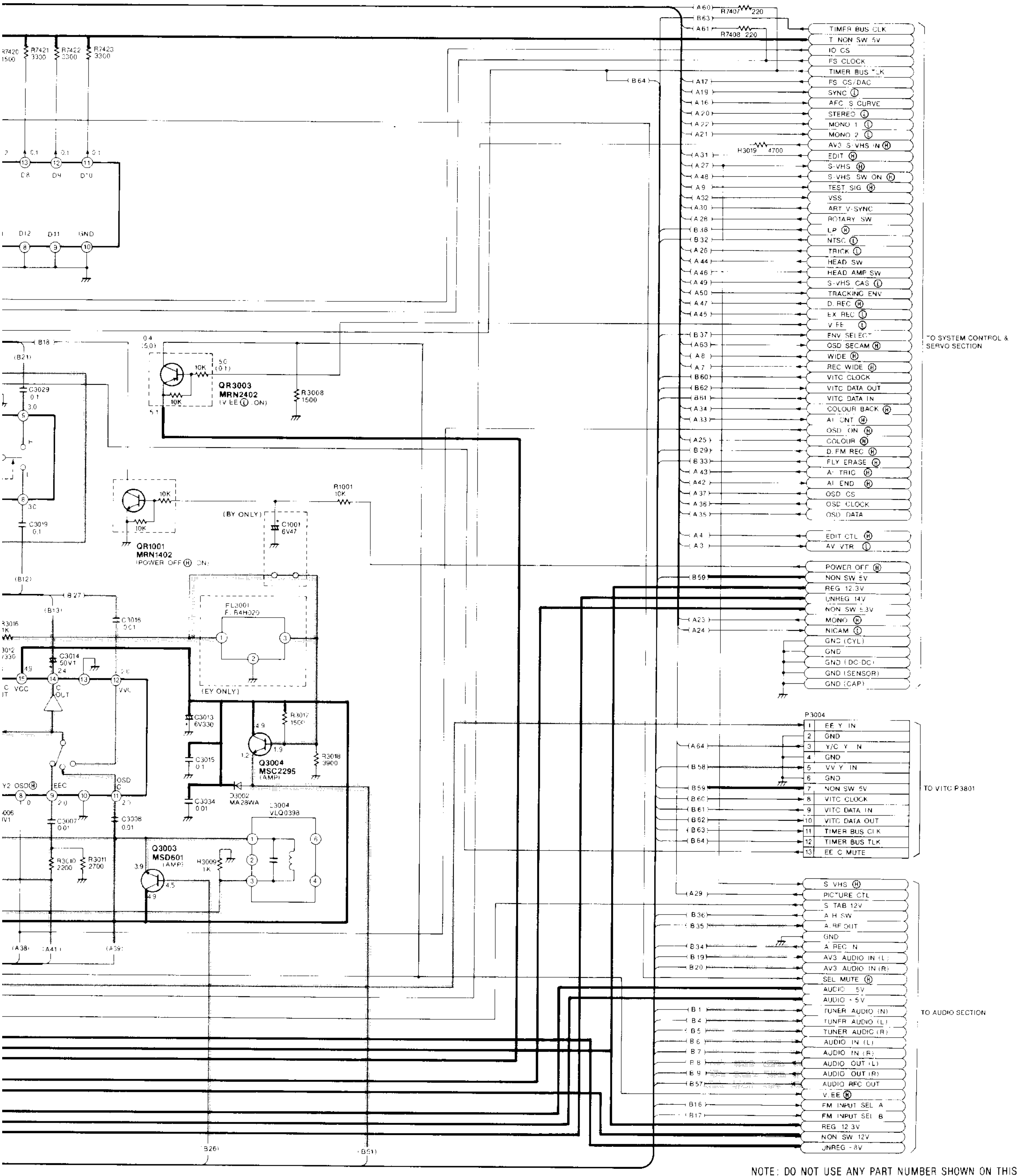

R7420 1500
R7421 3300
R7422 3300
R7423 3300
0.1
0.1
0.1
D8
D9
D10
D12
D11
GND
A60
R7407 220
B63
A61
R7408 220
B64
A17
A19
A16
A20
A22
A21
R3019 4700
A31
A27
A48
A9
A32
A30
A28
B38
B32
A26
A44
A46
A49
A50
A47
A45
B37
A63
A8
A7
B60
B62
B61
A34
A33
A25
B29
B33
A43
A42
A37
A36
A35
A4
A3
B59
A23
A24
TIMER BUS CLK
T NON SW 5V
IO CS
FS CLOCK
TIMER BUS TLK
FS CS/DAC
SYNC Ⓛ
AFC S CURVE
STEREO Ⓛ
MONO 1 Ⓛ
MONO 2 Ⓛ
AV3 S-VHS IN Ⓗ
EDIT Ⓗ
S-VHS Ⓗ
S-VHS SW ON Ⓗ
TEST SIG Ⓗ
VSS
ART V-SYNC
ROTARY SW
LP Ⓗ
NTSC Ⓛ
TRICK Ⓛ
HEAD SW
HEAD AMP SW
S-VHS CAS Ⓛ
TRACKING ENV
D. REC Ⓗ
EX REC Ⓛ
V EE Ⓛ
ENV SELECT
OSD SECAM Ⓗ
WIDE Ⓗ
REC WIDE Ⓗ
VITC CLOCK
VITC DATA OUT
VITC DATA IN
COLOUR BACK Ⓗ
AI CNT Ⓗ
OSD ON Ⓗ
COLOUR Ⓗ
D. FM REC Ⓗ
FLY ERASE Ⓗ
AI TRIG Ⓗ
AI END Ⓗ
OSD CS
OSD CLOCK
OSD DATA
EDIT CTL Ⓗ
AV VTR Ⓛ
POWER OFF Ⓗ
NON SW 5V
REG 12.3V
UNREG 14V
NON SW 5.3V
MONO Ⓗ
NICAM Ⓛ
GND (CYL)
GND
GND (DC-DC)
GND (SENSOR)
GND (CAP)
TO SYSTEM CONTROL & SERVO SECTION
P3004
1 EE Y IN
2 GND
3 Y/C Y IN
4 GND
5 VV Y IN
6 GND
7 NON SW 5V
8 VITC CLOCK
9 VITC DATA IN
10 VITC DATA OUT
11 TIMER BUS CLK
12 TIMER BUS TLK
13 EE C MUTE
A64
B58
B59
B60
B61
B62
B63
B64
TO VITC P3801
A29
B36
B35
B34
B19
B20
B1
B4
B5
B6
B7
B8
B9
B57
B16
B17
S VHS Ⓗ
PICTURE CTL
S TAB 12V
A H SW
A RF OUT
GND
A REC IN
AV3 AUDIO IN (L)
AV3 AUDIO IN (R)
SEL MUTE Ⓗ
AUDIO 5V
AUDIO + 5V
TUNER AUDIO (N)
TUNER AUDIO (L)
TUNER AUDIO (R)
AUDIO IN (L)
AUDIO IN (R)
AUDIO OUT (L)
AUDIO OUT (R)
AUDIO RFC OUT
V. EE Ⓗ
FM INPUT SEL A
FM INPUT SEL B
REG 12.3V
NON SW 12V
UNREG - 8V
TO AUDIO SECTION
B18
(B21)
C3029 0.1
3.0
H
L
3.0
C3019 0.1
(B12)
B27
(B13)
R3016 1K
C3016 0.01
C3012 6V330
C3014 50V1
4.9
2.4
3.0
VCC
C OUT
VVC
Y2 OSD Ⓗ
EEC
OSD C
1.0
2.0
2.0
C3006 50V1
C3007 0.01
C3008 0.01
R3010 2200
R3011 2700
(A38)
(A41)
(A39)
0.4 (5.0)
5.0 (0.1)
10K
10K
5.1
QR3003
MRN2402
(V EE Ⓛ ON)
R3008 1500
10K
10K
QR1001
MRN1402
(POWER OFF Ⓗ ON)
R1001 10K
(BY ONLY)
C1001 6V47
FL3001 F. B4H020
(EY ONLY)
C3013 6V330
C3015 0.1
C3034 0.01
R3017 1500
R3018 3900
4.9
1.9
1.2
Q3004
MSC2295
(AMP)
D3002
MA28WA
L3004
VLQ0398
Q3003
MSD601
(AMP)
3.9
4.5
4.9
R3009 1K
B26
B51

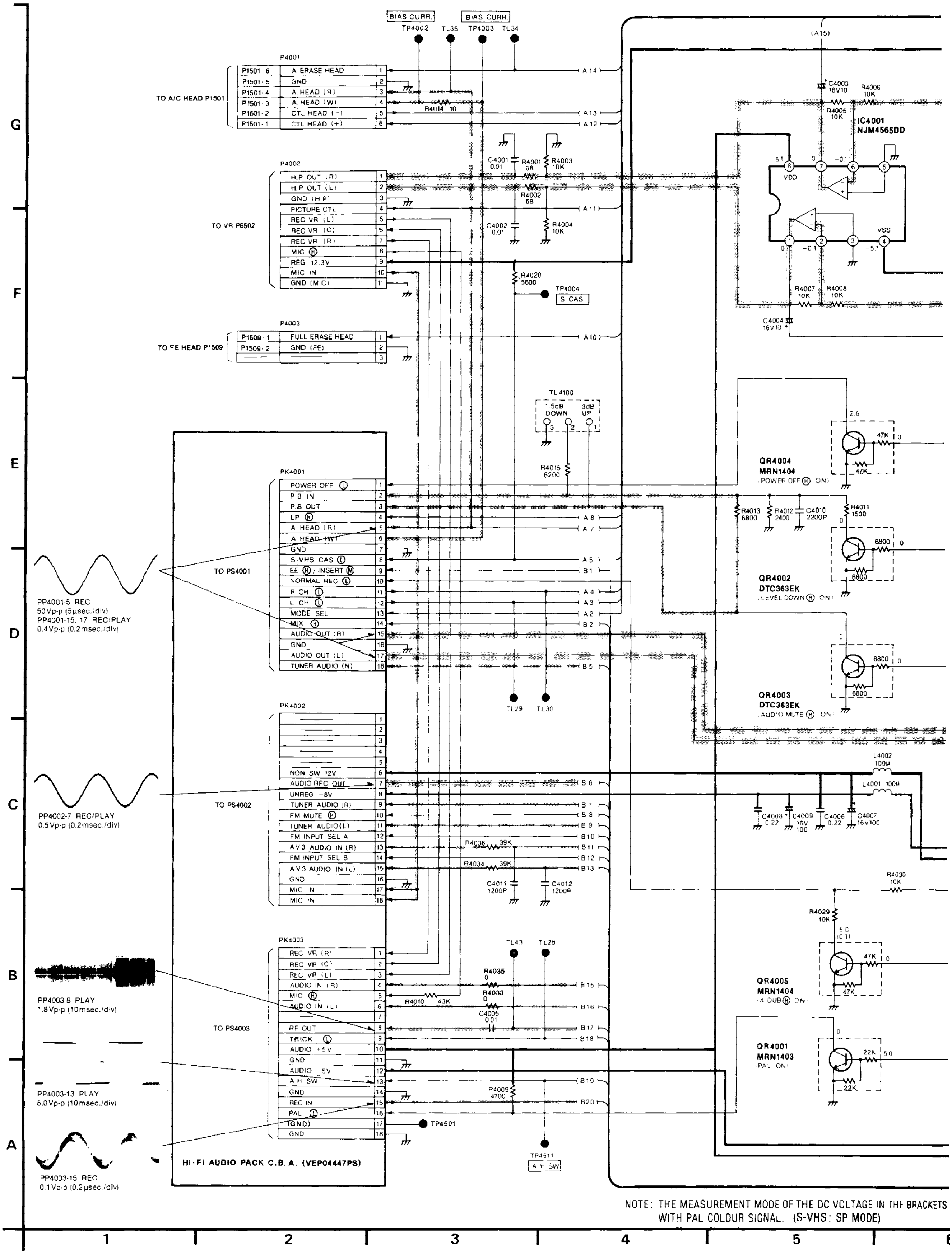
DIAGRAM IS RECORD MODE

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE
WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

18 19 20 21 22 23

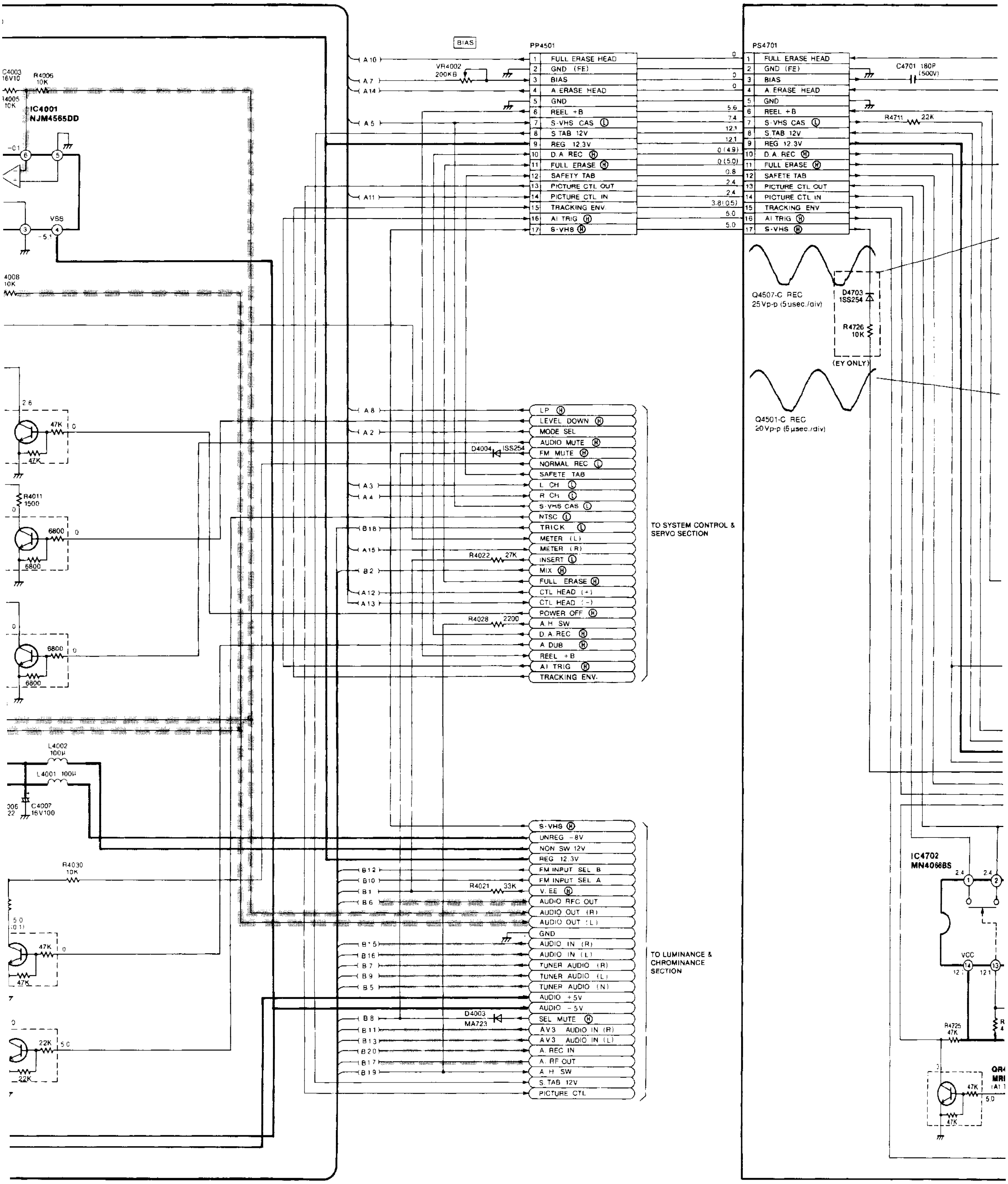
5. AUDIO SECTION IN MAIN & SUB AUDIO PACK SCHEMAIC DIAGRAM



BIAS CURR
TP4002
TL35
BIAS CURR
TP4003
TL34
P4001
TO A/C HEAD P1501
P1501-6 A ERASE HEAD 1
P1501-5 GND 2
P1501-4 A.HEAD (R) 3
P1501-3 A.HEAD (W) 4
P1501-2 CTL HEAD (-) 5
P1501-1 CTL HEAD (+) 6
R4014 10
A 14
A 13
A 12
(A15)
C4003 16V10
R4006 10K
R4005 10K
IC4001
NJM4565DD
P4002
TO VR P6502
H.P OUT (R) 1
H.P OUT (L) 2
GND (H.P) 3
PICTURE CTL 4
REC VR (L) 5
REC VR (C) 6
REC VR (R) 7
MIC Ⓗ 8
REG 12.3V 9
MIC IN 10
GND (MIC) 11
C4001 0.01
R4001 68
R4003 10K
R4002 68
A 11
C4002 0.01
R4004 10K
R4020 5600
TP4004
S CAS
VDD
VSS
R4007 10K
R4008 10K
C4004 16V10
P4003
TO FE HEAD P1509
P1509-1 FULL ERASE HEAD 1
P1509-2 GND (FE) 2
3
A 10
TL4100
1.5dB DOWN
3dB UP
R4015 8200
PK4001
POWER OFF Ⓛ 1
P.B IN 2
P.B OUT 3
LP Ⓗ 4
A.HEAD (R) 5
A.HEAD (W) 6
GND 7
S-VHS CAS Ⓛ 8
EE Ⓗ / INSERT Ⓜ 9
NORMAL REC Ⓛ 10
R CH Ⓛ 11
L CH Ⓛ 12
MODE SEL 13
MIX Ⓗ 14
AUDIO OUT (R) 15
GND 16
AUDIO OUT (L) 17
TUNER AUDIO (N) 18
TO PS4001
A 8
A 7
A 5
B 1
A 4
A 3
A 2
B 2
B 5
TL29
TL30
R4013 6800
R4012 2400
C4010 2200P
R4011 1500
QR4004
MRN1404
(POWER OFF Ⓗ ON)
47K
QR4002
DTC363EK
(LEVEL DOWN Ⓗ ON)
6800
QR4003
DTC363EK
(AUDIO MUTE Ⓗ ON)
PP4001-5 REC
50Vp-p (5μsec./div)
PP4001-15, 17 REC/PLAY
0.4Vp-p (0.2msec./div)
PK4002
NON SW 12V 6
AUDIO RFC OUT 7
UNREG -8V 8
TUNER AUDIO (R) 9
FM MUTE Ⓗ 10
TUNER AUDIO (L) 11
FM INPUT SEL A 12
AV3 AUDIO IN (R) 13
FM INPUT SEL B 14
AV3 AUDIO IN (L) 15
GND 16
MIC IN 17
MIC IN 18
TO PS4002
B 6
B 7
B 8
B 9
B 10
B 11
B 12
B 13
R4036 39K
R4034 39K
C4011 1200P
C4012 1200P
L4002 100μ
L4001 100μ
C4008 0.22
C4009 16V 100
C4006 0.22
C4007 16V100
R4030 10K
R4029 10K
PP4002-7 REC/PLAY
0.5Vp-p (0.2msec./div)
PK4003
REC VR (R) 1
REC VR (C) 2
REC VR (L) 3
AUDIO IN (R) 4
MIC Ⓗ 5
AUDIO IN (L) 6
7
RF OUT 8
TRICK Ⓛ 9
AUDIO +5V 10
GND 11
AUDIO -5V 12
A.H SW 13
GND 14
REC IN 15
PAL Ⓛ 16
(GND) 17
GND 18
TO PS4003
TL43
TL28
R4035 0
R4033 0
R4010 43K
C4005 0.01
B 15
B 16
B 17
B 18
B 19
B 20
R4009 4700
TP4501
TP4511
A.H SW
QR4005
MRN1404
(A DUB Ⓗ ON)
QR4001
MRN1403
(PAL ON)
22K
Hi-Fi AUDIO PACK C.B.A. (VEP04447PS)
PP4003-8 PLAY
1.8Vp-p (10msec./div)
PP4003-13 PLAY
5.0Vp-p (10msec./div)
PP4003-15 REC
0.1Vp-p (0.2μsec./div)
G
F
E
D
C
B
A
1
2
3
4
5

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

MAIN SIGNAL PATH IN REC MC

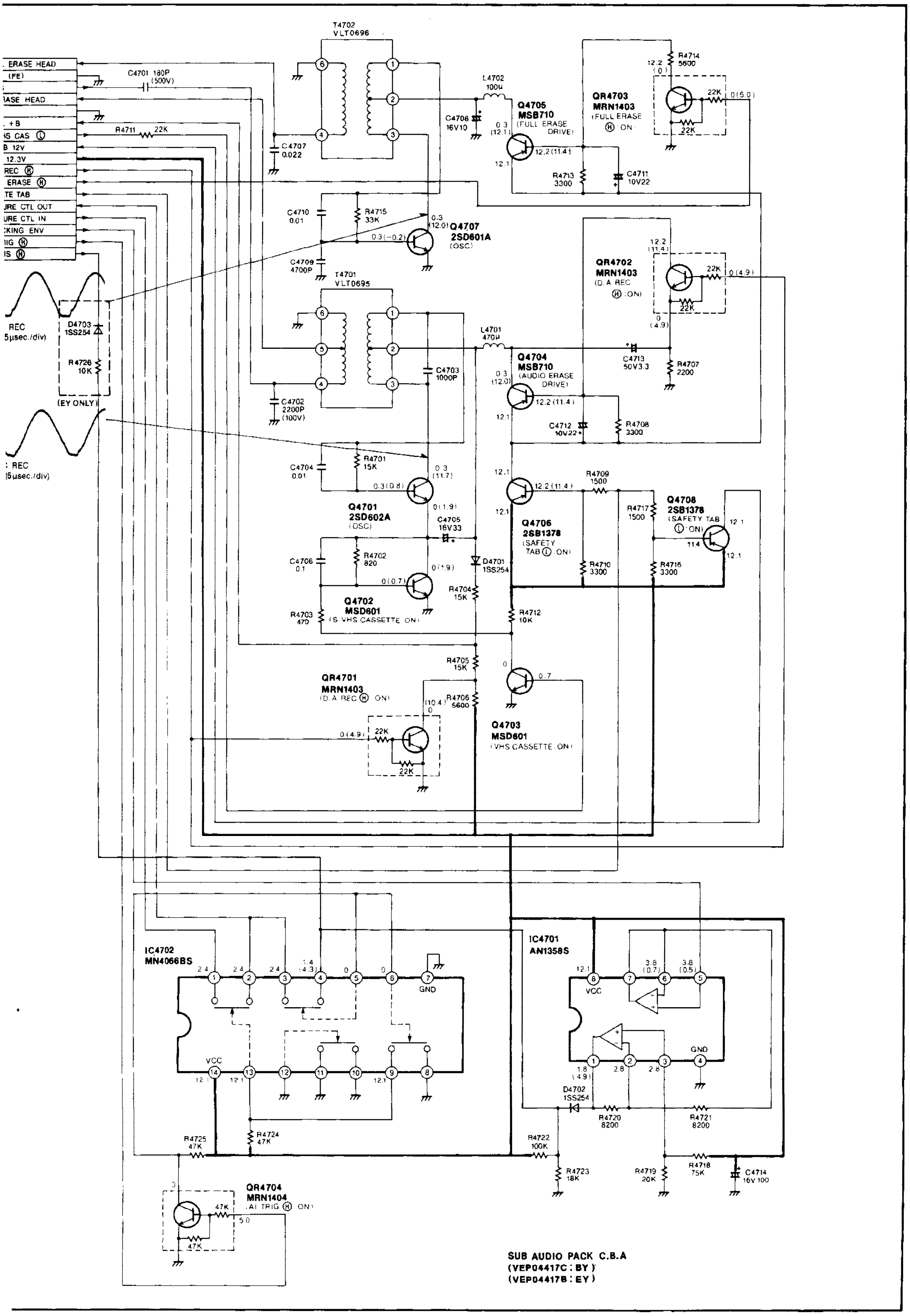

BIAS
PP4501
PS4701
FULL ERASE HEAD
GND (FE)
BIAS
A ERASE HEAD
GND
REEL +B
S-VHS CAS Ⓛ
S TAB 12V
REG 12.3V
D.A REC Ⓗ
FULL ERASE Ⓗ
SAFETY TAB
PICTURE CTL OUT
PICTURE CTL IN
TRACKING ENV
AI TRIG Ⓗ
S-VHS Ⓗ
VR4002 200KB
C4701 180P (500V)
R4711 22K
C4003 16V10
R4006 10K
R4005 10K
IC4001 NJM4565DD
VSS
R4008 10K
Q4507-C REC 25Vp-p (5μsec./div)
D4703 1SS254
R4726 10K
(EY ONLY)
Q4501-C REC 20Vp-p (5μsec./div)
LP Ⓗ
LEVEL DOWN Ⓗ
MODE SEL
AUDIO MUTE Ⓗ
FM MUTE Ⓗ
NORMAL REC Ⓛ
SAFETE TAB
L CH Ⓛ
R CH Ⓛ
S-VHS CAS Ⓛ
NTSC Ⓛ
TRICK Ⓛ
METER (L)
METER (R)
INSERT Ⓛ
MIX Ⓗ
FULL ERASE Ⓗ
CTL HEAD (+)
CTL HEAD (-)
POWER OFF Ⓗ
A.H. SW
D.A REC Ⓗ
A DUB Ⓗ
REEL +B
AI TRIG Ⓗ
TRACKING ENV.
TO SYSTEM CONTROL & SERVO SECTION
D4004 1SS254
R4022 27K
R4028 2200
R4011 1500
L4002 100μ
L4001 100μ
C4007 16V100
R4030 10K
S-VHS Ⓗ
UNREG -8V
NON SW 12V
REG 12.3V
FM INPUT SEL B
FM INPUT SEL A
V. EE Ⓗ
AUDIO REC OUT
AUDIO OUT (R)
AUDIO OUT (L)
GND
AUDIO IN (R)
AUDIO IN (L)
TUNER AUDIO (R)
TUNER AUDIO (L)
TUNER AUDIO (N)
AUDIO +5V
AUDIO -5V
SEL MUTE Ⓗ
AV3 AUDIO IN (R)
AV3 AUDIO IN (L)
A. REC IN
A. RF OUT
A. H. SW
S.TAB 12V
PICTURE CTL
TO LUMINANCE & CHROMINANCE SECTION
R4021 33K
D4003 MA723
IC4702 MN4066BS
VCC
R4725 47K

/OLTAGE IN THE BRACKETS (   ) ON THIS DIAGRAM IS RECORD MODE
SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE
WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

• LINE IN SIGNAL LEVEI

ƎNAL PATH IN REC MODE ▬ ▬ ▬ MAIN SIGNAL PATH IN PLAYBACK MODE


ERASE HEAD
(FE)
ASE HEAD
+B
S CAS Ⓛ
B 12V
12.3V
REC Ⓗ
ERASE Ⓗ
TE TAB
RE CTL OUT
RE CTL IN
KING ENV
IG Ⓗ
S Ⓗ
C4701 180P (500V)
R4711 22K
T4702 VLT0696
C4707 0.022
L4702 100μ
C4708 16V10
Q4705 MSB710 (FULL ERASE DRIVE)
R4713 3300
C4711 10V22
QR4703 MRN1403 (FULL ERASE Ⓗ ON)
R4714 5600
22K
C4710 0.01
R4715 33K
Q4707 2SD601A (OSC)
C4709 4700P
T4701 VLT0695
QR4702 MRN1403 (D.A REC Ⓗ ON)
D4703 1SS254
R4726 10K
REC 5μsec./div)
(EY ONLY)
REC (5μsec./div)
L4701 470μ
C4713 50V3.3
R4707 2200
C4703 1000P
C4702 2200P (100V)
Q4704 MSB710 (AUDIO ERASE DRIVE)
C4712 10V22
R4708 3300
C4704 0.01
R4701 15K
Q4701 2SD602A (OSC)
C4705 16V33
R4709 1500
R4717 1500
Q4708 2SB1378 (SAFETY TAB Ⓛ ON)
Q4706 2SB1378 (SAFETY TAB Ⓛ ON)
R4710 3300
R4716 3300
C4706 0.1
R4702 820
D4701 1SS254
Q4702 MSD601 (S-VHS CASSETTE ON)
R4703 470
R4704 15K
R4712 10K
R4705 15K
R4706 5600
QR4701 MRN1403 (D.A REC Ⓗ ON)
Q4703 MSD601 (VHS CASSETTE ON)
IC4702 MN4066BS
VCC
GND
IC4701 AN1358S
D4702 1SS254
R4720 8200
R4721 8200
R4722 100K
R4723 18K
R4719 20K
R4718 75K
C4714 16V100
R4725 47K
R4724 47K
QR4704 MRN1404 (AI TRIG Ⓗ ON)
47K
SUB AUDIO PACK C.B.A
(VEP04417C : BY)
(VEP04417B : EY)

IAM IS PLAYBACK MODE

• LINE IN SIGNAL LEVEL... −10dB 1kHz

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (SP MODE)

REF. NO.	IC2001																			
MODE	1	2	3	4	5	6	7	8												
STOP	0	5.0	0	0	0	5.0	0	5.0												
PLAY	0	5.0	0	0	0	5.0	0	5.0												
REC	0	4.9	0	0	0	5.0	0	5.0												
F.F	0	5.0	0	0	0	5.0	0	5.0												
REW	5.0	0	0	0	0	5.0	5.0	5.0												
REF. NO.	IC2002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	2.5	2.3	1.4	1.4	1.0	0	0	0	5.0	0	0	2.6	0	2.6	2.3	5.2				
PLAY	2.6	2.3	2.6	2.6	2.0	0	0	0	5.0	0	0	2.5	0	2.5	2.3	5.2				
REC	2.5	2.3	1.1	1.1	0.6	0	0	0	5.0	0	0	2.6	0	2.6	2.3	5.2				
F.F	2.5	2.3	1.6	1.6	1.0	0	0	0	5.0	0	0	2.6	0	2.6	2.3	5.2				
REW	2.5	2.3	1.2	1.2	0.6	0	0	0	5.0	0	0	2.6	0	2.6	2.3	5.2				
REF. NO.	IC2901																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
STOP	14.8	14.6	0.1	1.2	0.1	2.6	2.5	2.6	2.5	2.7	5.2	3.8	3.9	3.8	1.2	14.4	14.6	0.1		
PLAY	14.5	13.9	0.1	1.1	0.1	2.6	2.5	2.6	2.5	2.8	5.2	3.9	3.9	3.8	1.5	14.3	14.4	0.1		
REC	14.8	14.7	0.1	1.2	0.1	2.6	2.5	2.6	2.5	2.8	5.2	3.9	3.9	3.9	1.4	14.3	14.4	0.1		
F.F	14.1	13.8	0.1	1.1	0.1	2.6	2.5	2.6	2.5	2.8	5.2	3.9	3.8	3.8	1.5	14.3	13.7	0.1		
REW	14.5	13.5	0.1	1.1	0.1	2.6	2.5	2.6	2.5	2.8	5.2	3.8	3.8	3.9	1.5	14.3	14.5	0.1		
REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0.1	0	5.0	0.1	5.0	5.0	4.9	0.1	4.9	0	0	5.0	4.9	5.0	0	0	0	0	0
PLAY	0	0.1	0	5.0	5.0	5.0	5.0	4.9	0.1	4.9	0	0	5.0	4.9	5.0	0	0	0	0	0
REC	0	0.1	0	5.0	0.1	0	5.0	4.9	0.1	4.9	0	0	5.0	4.9	5.0	0	0	0	0	0
F.F	0	0.1	0	5.0	0.1	5.0	5.0	0	0.1	0	0	0	5.0	4.9	5.0	0	0	0	0	0
REW	0	0.1	0	5.0	0.1	5.0	5.0	0	0.1	0	0	0	5.0	4.9	5.0	0	0	0	0	0
REF. NO.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	5.0	0.1	5.0	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0	0	2.7	2.7	0	5.0
PLAY	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0	0	2.7	2.7	0	5.0
REC	5.0	0.1	5.0	0	5.0	0	0	0	0	4.9	5.0	0	0	5.0	5.0	0	2.7	2.7	0	5.0
F.F	5.0	0.1	5.0	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0	0	2.7	2.7	0	5.0
REW	5.0	0.1	5.0	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0	0	2.7	2.7	0	5.0
REF. NO.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0	0	0	0	0	0.1	0	0	5.0	0	1.8	0.9	4.5	4.8	5.0	4.8	2.0	0	2.6	2.5
PLAY	0	0	0	0	0	0.1	0	0	5.0	3.7	1.7	0.9	4.5	4.8	5.0	4.8	0	5.0	2.7	2.5
REC	0	0	0	5.0	5.0	5.0	5.0	0	5.0	0	1.7	0.9	4.5	4.8	5.0	4.8	0	5.0	2.6	2.5
F.F	0	0	0	0	0	0.1	0	0	5.0	0	1.7	0.8	4.5	4.8	5.0	4.8	0	5.0	5.0	2.5
REW	0	0	0	0	0	0.1	0	0	5.0	0	1.7	0.9	4.5	4.8	5.0	4.8	5.0	5.0	5.0	2.5
REF. NO.	IC6001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0	5.0	5.0	0	4.0	5.0	2.5	0.3	3.5	5.0	0	2.5	2.5	1.5	0	0	2.5	2.5	2.4	2.6
PLAY	0	3.7	5.0	0	4.0	5.0	2.5	0.3	3.7	5.0	5.0	2.5	2.5	1.5	0	0	2.5	2.5	3.0	2.5
REC	0	5.0	5.0	0	4.5	5.0	2.5	0.3	3.8	5.0	5.0	2.5	2.5	1.5	0	0	2.5	2.5	2.4	2.6
F.F	0	5.0	5.0	0	2.4	5.0	2.5	0.3	3.7	2.5	2.9	2.5	2.5	1.2	0	0	2.5	2.5	2.5	2.6
REW	0	4.0	3.6	0	2.5	5.0	2.5	0.3	3.7	2.7	2.5	2.5	2.5	1.3	0	0	2.5	2.5	2.5	2.6
REF. NO.	IC6001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	4.9	0	0	0	2.5	2.5	0	2.7	2.5	5.0	1.4	2.5	5.0	3.5	5.0	5.0	5.0	3.5	0	3.5
PLAY	5.0	0	0	0	2.5	2.5	0	3.0	2.5	5.0	2.5	2.5	5.0	4.1	5.0	5.0	5.0	3.5	0	3.5
REC	4.9	3.7	3.9	0	2.5	2.5	0	2.7	2.5	5.0	2.7	2.5	5.0	4.1	4.8	5.0	5.0	3.5	0	3.5
F.F	5.0	0	0	0	2.5	2.5	0	3.1	2.5	5.0	2.3	2.5	5.0	4.4	4.9	5.0	5.0	3.5	0	3.5
REW	5.0	0	0	0	2.5	2.5	0	3.1	2.5	5.0	2.4	2.5	5.0	4.4	4.9	5.0	5.0	3.5	0	3.5
REF. NO.	IC6001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
STOP	3.5	5.0	2.3	0	1.6	0	5.0	5.0	5.0	0	5.0	0	4.5	5.0	0	0	5.0	5.0	0	0
PLAY	3.5	5.0	2.6	0	2.7	0	5.0	0.2	5.0	0	5.0	0	4.5	5.0	0	0	5.0	5.0	0	0
REC	3.5	5.0	2.6	0	1.2	0	5.0	0.2	5.0	0	5.0	0	4.5	5.0	0	0	5.0	5.0	0	0
F.F	3.5	5.0	2.6	0	1.2	0	5.0	0.2	5.0	0	5.0	0	4.5	5.0	0	5.0	5.0	5.0	0	0
REW	3.5	5.0	2.3	0	1.2	0	5.0	0.2	5.0	5.0	5.0	0	4.5	5.0	0	5.0	5.0	5.0	0	0
REF. NO.	IC6001																			
MODE	121	122	123	124																
STOP	0	0	0	5.0																
PLAY	0	0	0	5.0																
REC	0	0	0	5.0																
F.F	0	0	0	5.0																
REW	0	0	0	5.0																

REF. NO.	IC6002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	4.8	4.7	4.6	0	0	0	5.0	0	4.5	0.9	0.9	0	4.8	3.1	4.7	0	0	0	4.9	5.0
PLAY	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7	0	0	0	4.9	5.0
REC	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7	0	0	0	4.9	5.0
F.F	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7	0	0	0	4.9	5.0
REW	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7	0	0	0	4.9	5.0

REF. NO.	IC6002																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	5.0	2.2	2.4	0	0	0	5.0	5.0	5.0	5.0	0	0	0	0.2	0	0	4.5	0	0	0
PLAY	5.0	2.2	2.4	0	0	0	0	5.0	5.0	0	0	0	0	0.2	0	0	4.5	0	0	0
REC	5.0	2.2	2.4	0	0	0	0	5.0	5.0	5.0	0	0	0	0.2	0	0	4.5	0	0	0
F.F	5.0	2.2	2.4	0	0	0	0	5.0	5.0	5.0	0	0	0	0.2	0	0	4.5	0	0	0
REW	5.0	2.2	2.4	0	0	0	0	5.0	5.0	5.0	0	0	0	0.2	0	0	4.5	0	0	0

REF. NO.	IC6002																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	5.0	5.0	0	5.0
PLAY	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	5.0	5.0	0	5.0
REC	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	5.0	5.0	0	5.0
F.F	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	5.0	5.0	0	5.0
REW	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	5.0	5.0	0	5.0

REF. NO.	IC6002																			
MODE	61	62	63	64																
STOP	0.1	5.0	5.0	5.0																
PLAY	0.1	5.0	5.0	5.0																
REC	0.1	5.0	5.0	5.0																
F.F	0.1	5.0	5.0	5.0																
REW	0.1	5.0	5.0	5.0																

REF. NO.	IC6003																			
MODE	1	2	3																	
STOP	5.0	5.0	0																	
PLAY	5.0	5.0	0																	
REC	5.0	5.0	0																	
F.F	5.0	5.0	0																	
REW	5.0	5.0	0																	

REF. NO.	IC6005																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.6	5.0	4.6	5.0				
PLAY	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.6	5.0				
REC	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.6	5.0				
F.F	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.7	5.0				
REW	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.7	5.0				

REF. NO.	IC6007										IC6008									
MODE	1	2	3	4	5	6	7	8			1	2	3							
STOP	5.0	5.0	0.1	5.0	0	0	5.0	5.0			2.3	0	2.9							
PLAY	5.0	5.0	0.1	5.0	0	0	5.0	5.0			2.3	0	2.9							
REC	5.0	5.0	0.1	5.0	0	0	5.0	5.0			2.3	0	2.9							
F.F	5.0	5.0	0.1	5.0	0	0	5.0	5.0			2.3	0	2.9							
REW	5.0	5.0	0.1	5.0	0	0	5.0	5.0			2.3	0	2.9							

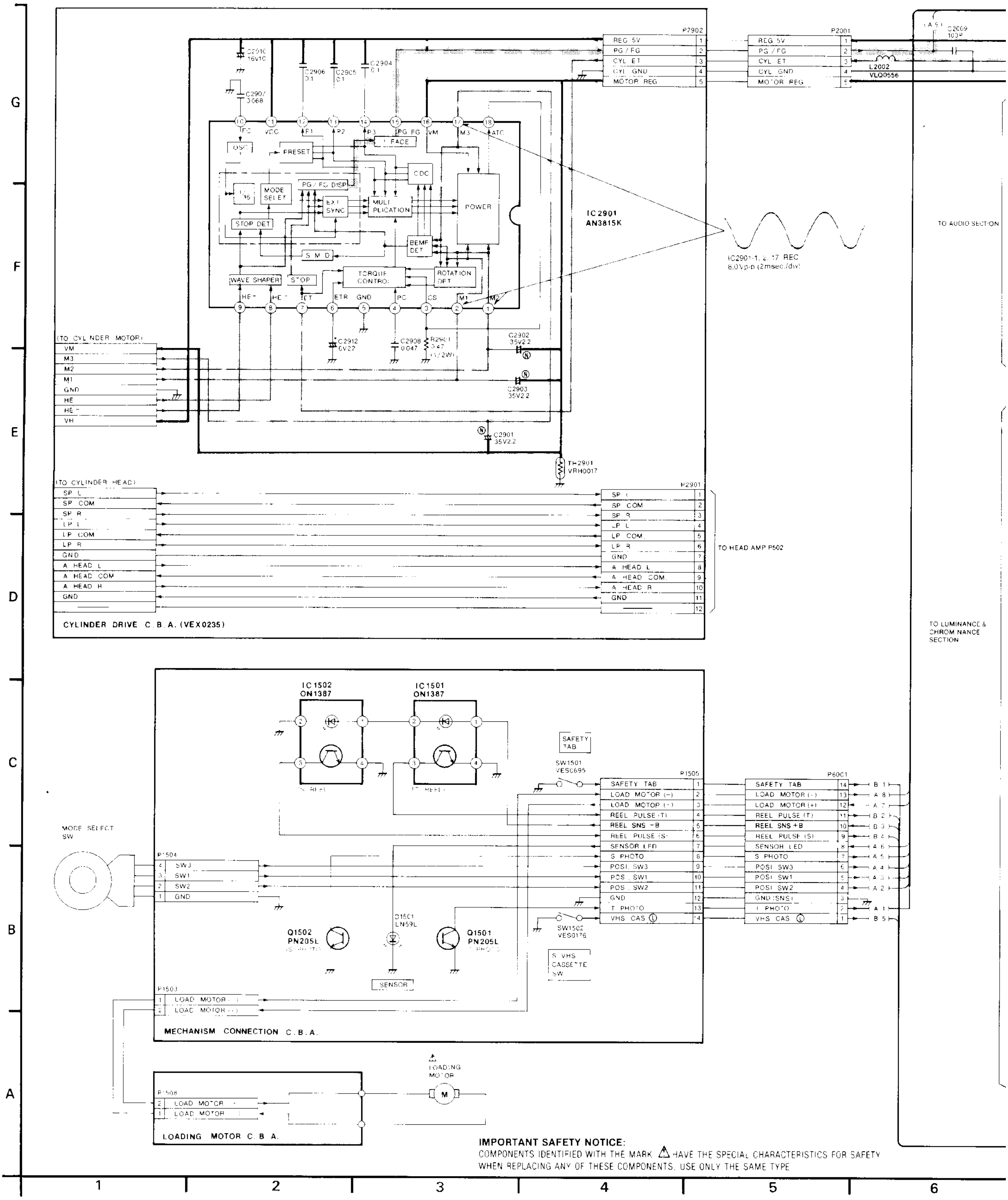
SYSTEM CONTROL & SERVO TRANSISTORs DC VOLTAGE CHART (SP MODE)

REF. NO.	Q2001			Q2002			Q6001			Q6002			Q6003			Q6004		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	5.0	4.8	5.0	1.6	0	1.0	5.1	14.4	5.6	5.1	−0.2	5.0	5.2	5.4	5.9	5.0	5.0	5.7
PLAY	5.0	4.8	5.0	2.6	0	2.0	5.0	14.4	5.6	5.0	4.8	4.2	5.2	5.4	5.9	5.0	5.0	5.7
REC	5.0	4.8	4.9	1.1	0	0.5	4.9	14.3	5.6	4.9	4.8	4.2	5.2	5.4	5.9	5.0	5.0	5.5
F.F	5.0	4.8	5.0	1.1	0	1.1	5.0	14.3	5.6	5.0	4.9	4.2	5.2	5.4	5.9	5.0	5.0	5.7
REW	5.0	4.8	5.0	1.1	0	0.5	5.0	14.3	5.6	5.0	4.8	4.2	5.2	5.4	5.9	5.0	5.0	5.7
REF. NO.	Q6005			Q6006			Q6008											
MODE	E	C	B	E	C	B	E	C	B									
STOP	0	4.9	0.1	0	4.7	0.1	5.0	5.1	5.8									
PLAY	0	4.9	0.1	0	4.7	0.1	5.0	5.1	5.8									
REC	0	4.9	0.1	0	4.7	0.1	5.0	5.1	5.8									
F.F	0	4.8	0.1	0	4.7	0.1	5.0	5.1	5.8									
REW	0	4.8	0.1	0	4.7	0.1	5.0	5.1	5.8									
REF. NO.	QR2001						QR2002			QR6001			QR6002			QR6003		
MODE	1	2	3	4	5		E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0	4.9	0	4.9		5.0	0	5.0	0	0	5.0	5.0	5.0	0	5.0	5.0	0
PLAY	0	0	4.9	0	4.9		5.0	0	5.0	0	0	5.0	5.0	5.0	0	5.0	5.0	0
REC	0	0	4.9	0	4.9		5.0	0	5.0	0	0	5.0	5.0	5.0	0	5.0	5.0	0
F.F	0	1.0	0	0	0		5.0	0	5.0	0	0	5.0	5.0	5.0	0	5.0	5.0	0
REW	0	1.0	0	0	0		5.0	0	5.0	0	0	5.0	5.0	5.0	0	5.0	5.0	0
REF. NO.	QR6004			QR6009						QR6012			QR6013			QR6014		
MODE	E	C	B	1	2	3	4	5		E	C	B	E	C	B	E	C	B
STOP	0	0.9	1.7	5.1	0	0	0	0		0	0.1	4.3	0	0	7.0	0	0	4.9
PLAY	0	0.9	1.7	0.5	0	0	0	0		0	0.1	4.3	0	0	7.0	0	0	4.9
REC	0	1.0	1.7	5.1	0	0	0	0		0	0.1	4.3	0	0	7.0	0	0	4.9
F.F	0	1.0	1.7	5.1	0	0	0	0		0	0.1	4.3	0	0	7.0	0	0	4.9
REW	0	0.9	1.7	5.1	0	0	0	0		0	0.1	4.3	0	0	7.0	0	0	4.9
REF. NO.	QR6015																	
MODE	E	C	B															
STOP	5.2	0.3	5.0															
PLAY	5.2	0.3	5.0															
REC	5.2	0.3	5.0															
F.F	5.2	0.3	5.0															
REW	5.2	0.3	5.0															

INPUT/OUTPUT CHART FOR IC6002 (M38024V1BK)

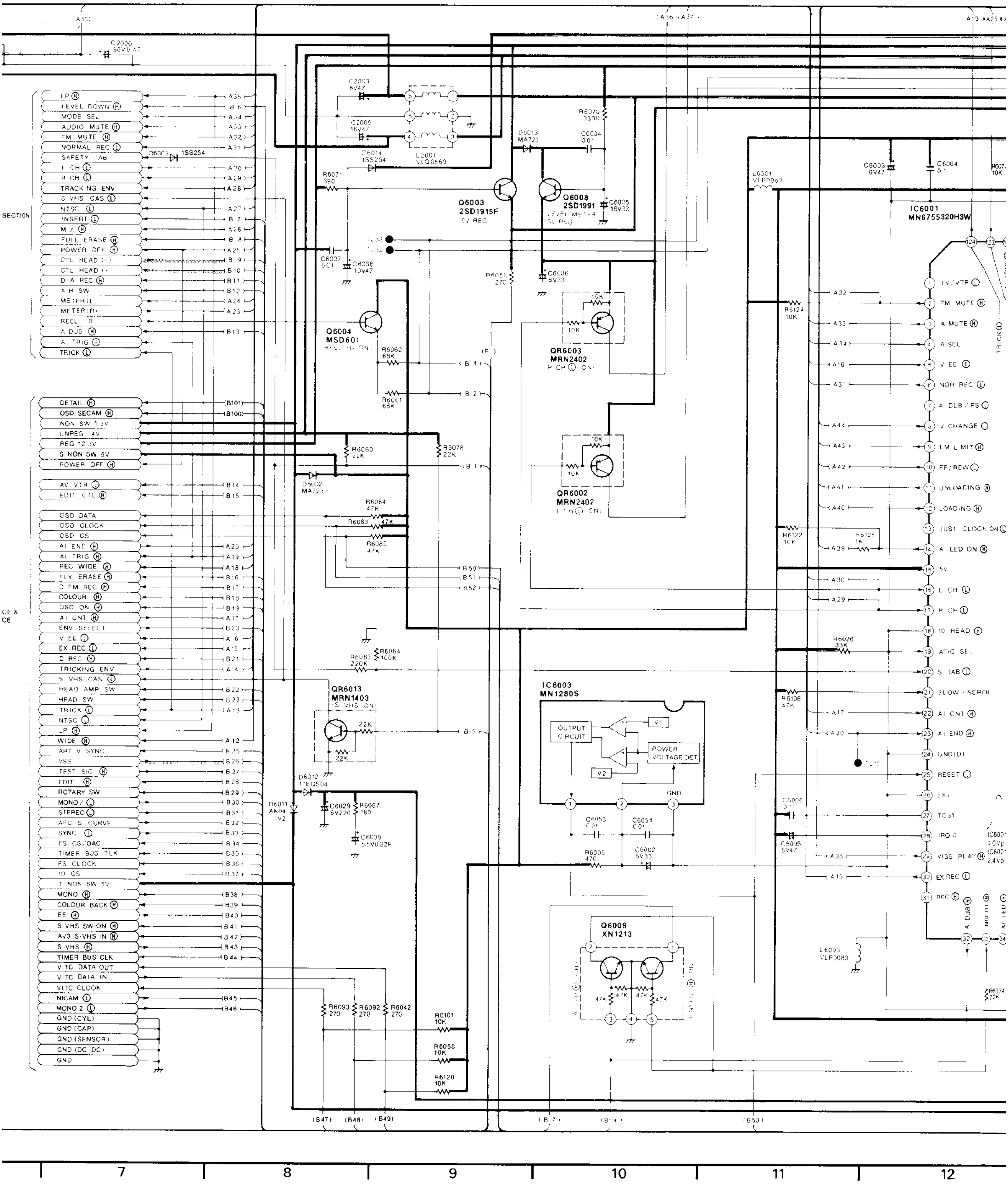
PIN NO.	I/O	PORT NAME	PIN NO.	I/O	PORT NAME	PIN NO.	I/O	PORT NAME
1	O	OSD CLK	20	I	L CLK	37	I	VITC OK (H)
2	O	OSD DATA	21	I	5P CLK	38	I	LANGUAGE 2
3	O	OSD CS	22	I	OSC IN	39	I	LANGUAGE 1
4	O	OSD ON (H)	23	O	OSC OUT	40	I	LANGUAGE 0
5, 6	–	—	24	–	GND	41–46	–	—
7	I	L CLK CNT	25	O	JOG LED (H)	47	O	BUS SELECT (B)
8	–	—	26	O	EDIT 21P	48	O	BUS SELECT (A)
9	I	SYS CLK	27	O	AV VTR (L)	49	I	CHECK (L)
10	O	SYS OUT	28	O	TBC SEARCH Ⓛ	50–56	–	—
11	I	SYS IN	29	O	TBC TRICK Ⓛ	57, 58	I	VDD
12	O	DATA INH	30	O	TBC ON Ⓛ	59	–	GND
13	I	CLK INPUT	31	–	—	60	I	EE DATA IN
14	O	DATA OUT	32	O	EDIT (H)	61	O	EE DATA OUT
15	I	DATA IN	33	I	TEST SIGNAL (H)	62	O	EE CLK
16, 17	–	—	34	I	OSD SECAM (H)	63	O	EE CS
18	–	GND	35	O	INSIDE (H)	64	I	REC/P1/P2
19	I	RESET (L)	36	I	SERCH MUTE OK (H)			

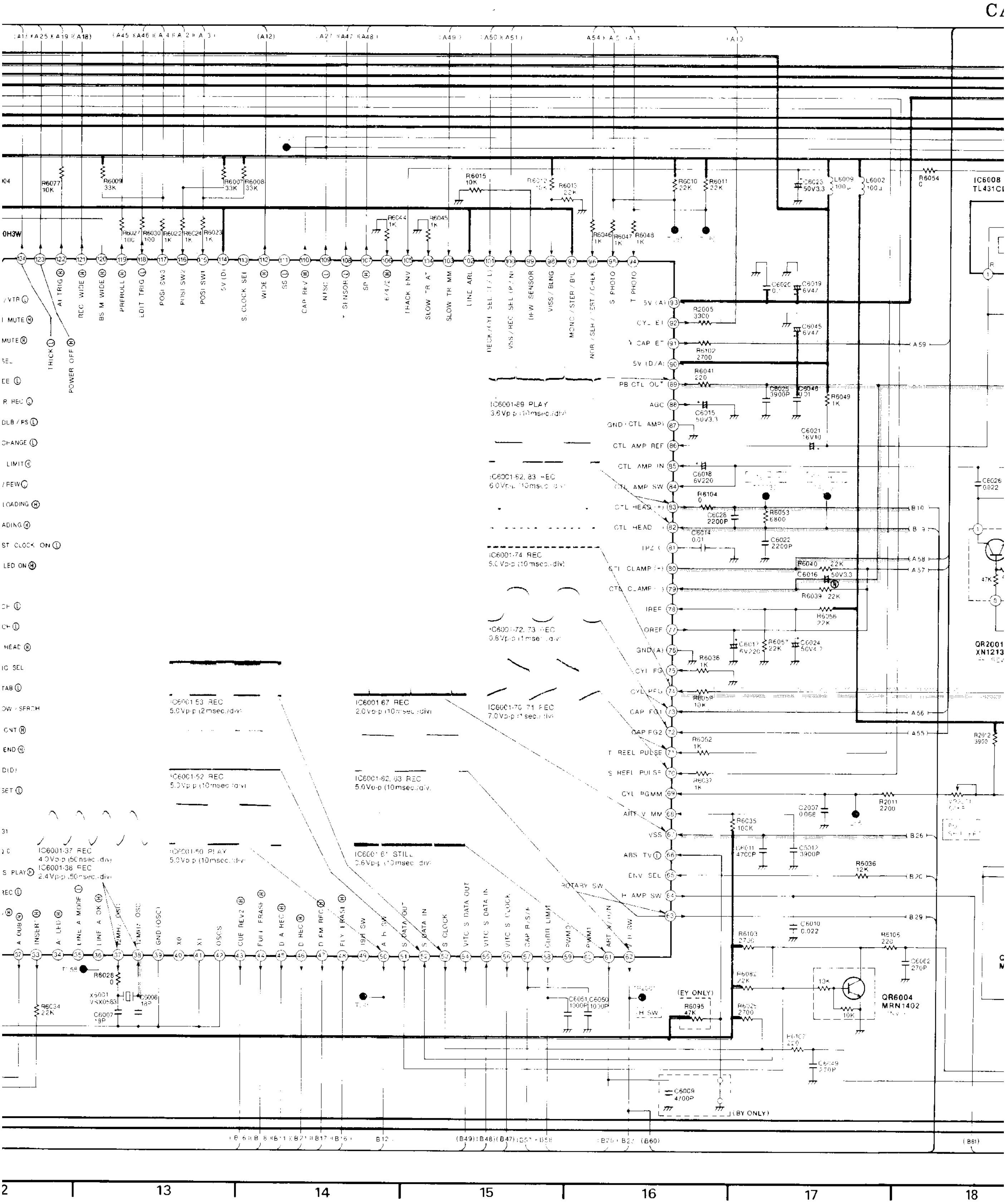
6. SYSTEM CONTROL & SERVO SECTION IN MAIN & SYLINDER DRIVE SCHEMATI


G
F
E
D
C
B
A
1
2
3
4
5
6
P2902
REG 5V
PG / FG
CYL ET
CYL GND
MOTOR REG
P2001
L2002
VLQ0556
C2009
100P
C2910
16V10
C2907
0068
C2906
0.1
C2905
0.1
C2904
0.1
OSC
PRESET
I FACE
CDC
MODE SELECT
PG / FG DISP
EXT SYNC
MULTI PLICATION
POWER
STOP DET
BEMF DET
S M D
WAVE SHAPER
STOP
TORQUE CONTROL
ROTATION DET
IC 2901
AN3815K
IC2901-1, 2, 17 REC
8.0Vp-p (2msec./div)
TO AUDIO SECTION
(TO CYLINDER MOTOR)
VM
M3
M2
M1
GND
HE
HE -
VH
C2912
6V22
C2908
0.047
R2901
0.47
(1/2W)
C2902
35V2.2
C2903
35V2.2
C2901
35V2.2
TH2901
VRH0017
(TO CYLINDER HEAD)
SP L
SP COM
SP R
LP L
LP COM
LP R
GND
A HEAD L
A HEAD COM
A HEAD R
P2901
TO HEAD AMP P502
CYLINDER DRIVE C.B.A. (VEX0235)
TO LUMINANCE & CHROMINANCE SECTION
IC1502
ON1387
IC1501
ON1387
(S REEL)
(T REEL)
SAFETY TAB
SW1501
VES0695
P1505
SAFETY TAB
LOAD MOTOR (-)
LOAD MOTOR (+)
REEL PULSE (T)
REEL SNS +B
REEL PULSE (S)
SENSOR LED
S PHOTO
POSI SW3
POSI SW1
POSI SW2
GND
T PHOTO
VHS CAS
P6001
GND (SNS)
MODE SELECT SW
P1504
SW3
SW1
SW2
GND
D1501
LN59L
Q1502
PN205L
Q1501
PN205L
SENSOR
SW1502
VES0176
S-VHS CASSETTE SW
P1503
LOAD MOTOR
MECHANISM CONNECTION C.B.A.
P1508
LOADING MOTOR
LOADING MOTOR C.B.A.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE

ATIC DIAGRAM

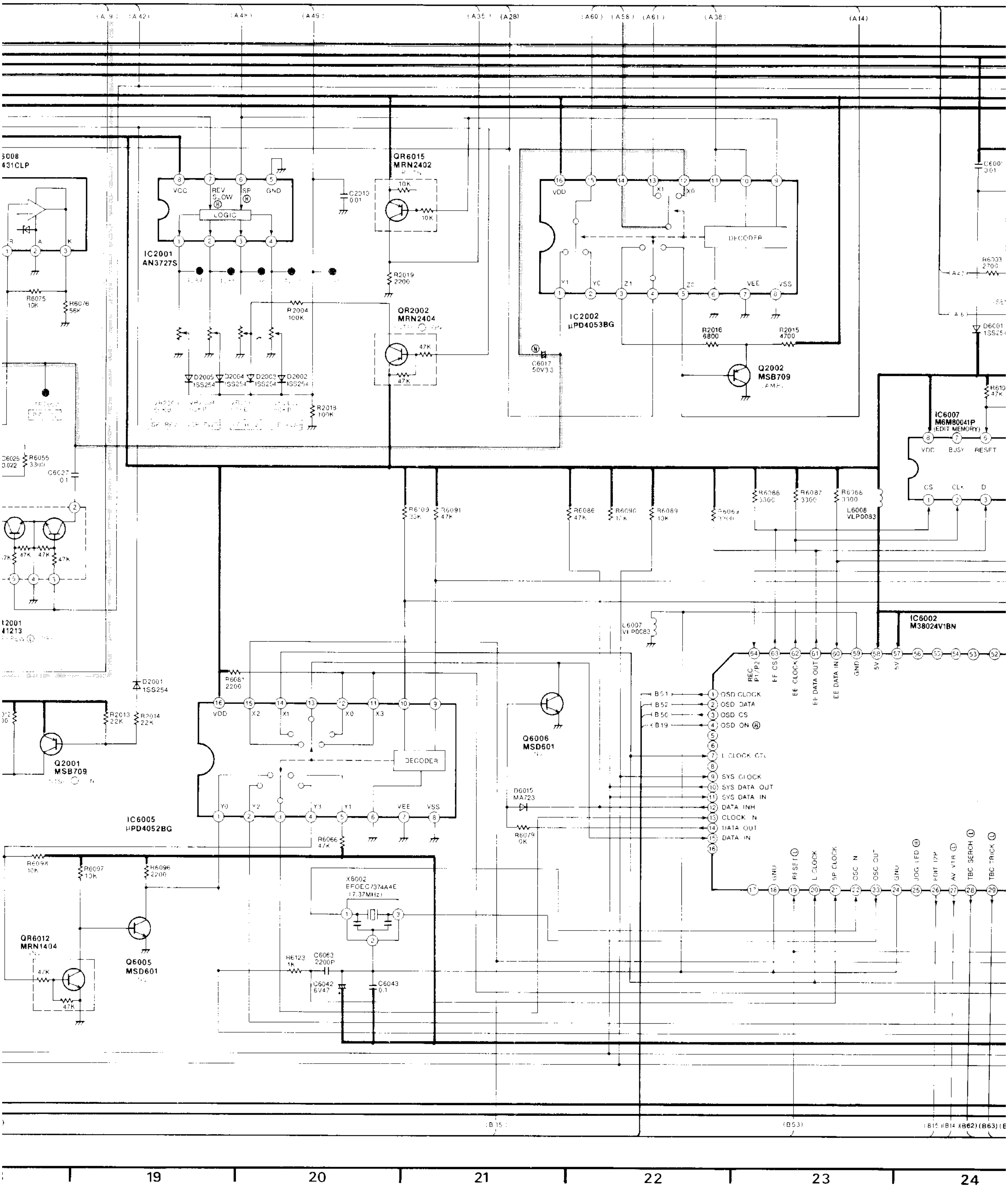

Q6003
2SD1915F
5V REG
Q6008
2SD1991
LEVEL METER 5V REG
Q6004
MSD601
QR6003
MRN2402
R CH Ⓛ ON
QR6002
MRN2402
L CH Ⓛ ON
QR6013
MRN1403
S VHS ON
IC6003
MN1280S
OUTPUT CIRCUIT
POWER VOLTAGE DET
V1
V2
GND
Q6009
XN1213
IC6001
MN6755320H3W
L2001
VLQ0560
L6001
VLP0063
L6003
VLP0083
C2006 50V0.47
C2003 6V47
C2005 16V47
D6003 1SS254
D6014 1SS254
D6013 MA723
D6002 MA723
D6012 11EQS04
D6011 AK04 V2
R6070 3300
C6034 0.01
C6035 16V33
C6036 6V33
C6037 0.01
C6038 10V47
R6071 390
R6051 270
R6062 68K
R6061 68K
R6060 22K
R6078 22K
R6084 47K
R6083 47K
R6085 47K
R6063 220K
R6064 100K
C6029 6V220
R6067 180
C6030 35V022F
C6053 0.01
C6054 0.01
R6005 470
C6002 6V33
C6003 6V47
C6004 0.1
R6124 10K
R6122 10K
R6125 1K
R6026 33K
R6108 47K
C6006 0.1
C6005 6V47
R6034 22K
R6093 270
R6092 270
R6042 270
R6101 10K
R6058 10K
R6120 10K
LP Ⓗ
LEVEL DOWN Ⓗ
MODE SEL
AUDIO MUTE Ⓗ
FM MUTE Ⓗ
NORMAL REC Ⓛ
SAFETY TAB
L CH Ⓛ
R CH Ⓛ
TRACKING ENV
S VHS CAS Ⓛ
NTSC Ⓛ
INSERT Ⓛ
MIX Ⓗ
FULL ERASE Ⓗ
POWER OFF Ⓗ
CTL HEAD (−)
CTL HEAD (+)
D A REC Ⓗ
A H SW
METER(L)
METER(R)
REEL B
A DUB Ⓗ
A TRIG Ⓗ
TRICK Ⓛ
SECTION
DETAIL Ⓗ
OSD SECAM Ⓗ
NON SW 5.3V
UNREG 14V
REG 12.3V
S NON SW 5V
POWER OFF Ⓗ
AV VTR Ⓛ
EDIT CTL Ⓗ
OSD DATA
OSD CLOCK
OSD CS
AI END Ⓗ
AI TRIG Ⓗ
REC WIDE Ⓗ
FLY ERASE Ⓗ
D FM REC Ⓗ
COLOUR Ⓗ
OSD ON Ⓗ
AI CNT Ⓗ
ENV SELECT
V EE Ⓛ
EX REC Ⓛ
D REC Ⓗ
TRICKING ENV
S VHS CAS Ⓛ
HEAD AMP SW
HEAD SW
TRICK Ⓛ
NTSC Ⓛ
LP Ⓗ
WIDE Ⓗ
ART V SYNC
VSS
TEST SIG Ⓗ
EDIT Ⓗ
ROTARY SW
MONO/Ⓛ
STEREO Ⓛ
AFC S CURVE
SYNC Ⓛ
FS CS/DAC
TIMER BUS TLK
FS CLOCK
IO CS
T NON SW 5V
MONO Ⓗ
COLOUR BACK Ⓗ
EE Ⓗ
S-VHS SW ON Ⓗ
AV3 S-VHS IN Ⓗ
S-VHS Ⓗ
TIMER BUS CLK
VITC DATA OUT
VITC DATA IN
VITC CLOCK
NICAM Ⓛ
MONO 2 Ⓛ
GND (CYL)
GND (CAP)
GND (SENSOR)
GND (DC-DC)
GND
CE &
CE
1 TV/VTR Ⓛ
2 FM MUTE Ⓗ
3 A MUTE Ⓗ
4 A SEL
5 V EE Ⓛ
6 NOR REC Ⓛ
7 A DUB / PS Ⓛ
8 V CHANGE Ⓛ
9 LM LIMIT Ⓗ
10 FF/REW Ⓛ
11 UNLOADING Ⓗ
12 LOADING Ⓗ
13 JUST CLOCK ON Ⓛ
14 A LED ON Ⓗ
15 5V
16 L CH Ⓛ
17 R CH Ⓛ
18 10 HEAD Ⓗ
19 ATIC SEL
20 S TAB Ⓛ
21 SLOW / SERCH
22 AI CNT Ⓗ
23 AI END Ⓗ
24 GND(D)
25 RESET Ⓛ
26 EXI
27 TC31
28 IRQ 0
29 VISS PLAY Ⓗ
30 EX REC Ⓛ
31 REC Ⓗ
32
33
34
124
TRICK Ⓛ
A DUB Ⓗ
INSERT Ⓗ
AI LED
IC6001 4.0Vp-p
IC6001 2.4Vp-p
(A10)
(A36)(A37)
(A13)(A25)
(B47)
(B48)
(B49)
(B7)
(B53)
7
8
9
10
11
12


CA
IC6008
TL431C
0H3W
R6077 10K
R6009 33K
R6007 33K
R6008 33K
R6015 10K
R6013 22K
R6010 22K
R6011 22K
C6023 50V3.3
L6009 100μ
L6002 100μ
R6054
R6044 1K
R6045 1K
R6027 100
R6030 100
R6022 1K
R6024 1K
R6023 1K
R6046 1K
R6047 1K
R6048 1K
AI TRIG
REC WIDE
BS M WIDE
PREROLL
EDIT TRIG
POSI SW3
POSI SW2
POSI SW1
5V (D)
S CLOCK SEL
WIDE
SS
CAP REV
NTSC
SP
TRACK ENV
SLOW TRACK
SLOW TR MM
LINE ARL
VSS/REC SEL
DRW SENSOR
VISS/BLNG
MONO/STER/B/L
S PHOTO
T PHOTO
TRICK
POWER OFF
5V (A)
CYL ET
CAP ET
5V (D/A)
PB CTL OUT
AGC
GND (CTL AMP)
CTL AMP REF
CTL AMP IN
CTL AMP SW
CTL HEAD (+)
CTL HEAD (-)
TPZ C
CTL CLAMP (+)
CTL CLAMP (-)
IREF
OREF
GND (A)
CYL FG
CYL PFG
CAP FG1
CAP FG2
T REEL PULSE
S REEL PULSE
CYL PGMM
AFT V MM
VSS
ABS TV
ENV SEL
H AMP SW
ROTARY SW
R2005 3300
R6102 2700
R6041 220
C6025 3900P
C6048 0.01
R6049 1K
C6015 50V3.3
C6021 16V10
C6018 6V220
R6104 0
C6026 2200P
R6053 6800
C6014 0.01
C6022 2200P
R6040 22K
C6016 50V3.3
R6039 22K
R6056 22K
C6017 6V220
R6057 22K
C6024 50V4.7
R6036 1K
R6059 10K
R6052 1K
R6037 1K
R2011 2200
R2012 3900
C2007 0.068
R6035 10CK
C6011 4700P
C6012 3900P
R6036 12K
C6019 6V47
C6020 0.1
C6045 6V47
C6026 0.022
QR2001
XN1213
A59
A58
A57
A56
A55
B10
B26
B20
B29
IC6001-89 PLAY
3.6Vp-p (10msec/div)
IC6001-82, 83 REC
6.0Vp-p (10msec/div)
IC6001-74 REC
5.0Vp-p (10msec/div)
IC6001-72, 73 REC
0.6Vp-p (1msec/div)
IC6001-70, 71 REC
7.0Vp-p (1msec/div)
IC6001-53 REC
5.0Vp-p (2msec/div)
IC6001-67 REC
2.0Vp-p (10msec/div)
IC6001-52 REC
5.0Vp-p (10msec/div)
IC6001-62, 63 REC
5.0Vp-p (10msec/div)
IC6001-50 PLAY
5.0Vp-p (10msec/div)
IC6001-61 STILL
2.6Vp-p (10msec/div)
IC6001-37 REC
4.0Vp-p (50nsec/div)
IC6001-38 REC
2.4Vp-p (50nsec/div)
A DUB
INSERT
A LHD
LINE A MODE
LINE A OK
GND (OSC)
X0
X1
OSCS
CUE REV2
FULL ERASE
D A REC
D REC
D FM REC
FLY ERASE
A H SW
S DATA OUT
S DATA IN
S CLOCK
VITC S DATA OUT
VITC S DATA IN
VITC S CLOCK
CAP R/S/F
CURR LIMM
PWM0
PWM1
ART A/T/H/N
H SW
R6028 0
X6001
R6034 22K
C6007 18P
C6008 18P
C6051 1000P
C6050 1000P
(EY ONLY)
R6095 47K
R6103 2700
R6082 22K
R6025 2700
R6105 220
C6062 270P
C6010 0.022
QR6004
MRN1402
10K
R6107 220
C6029 270P
C6009 4700P
(BY ONLY)
(B49)
(B48)
(B47)
(B60)
(B61)
(A12)
(A45)
(A46)
(A49)
(A50)
(A51)
(A54)
13
14
15
16
17
18

CAPSTAN SERVO SPEED LOOP

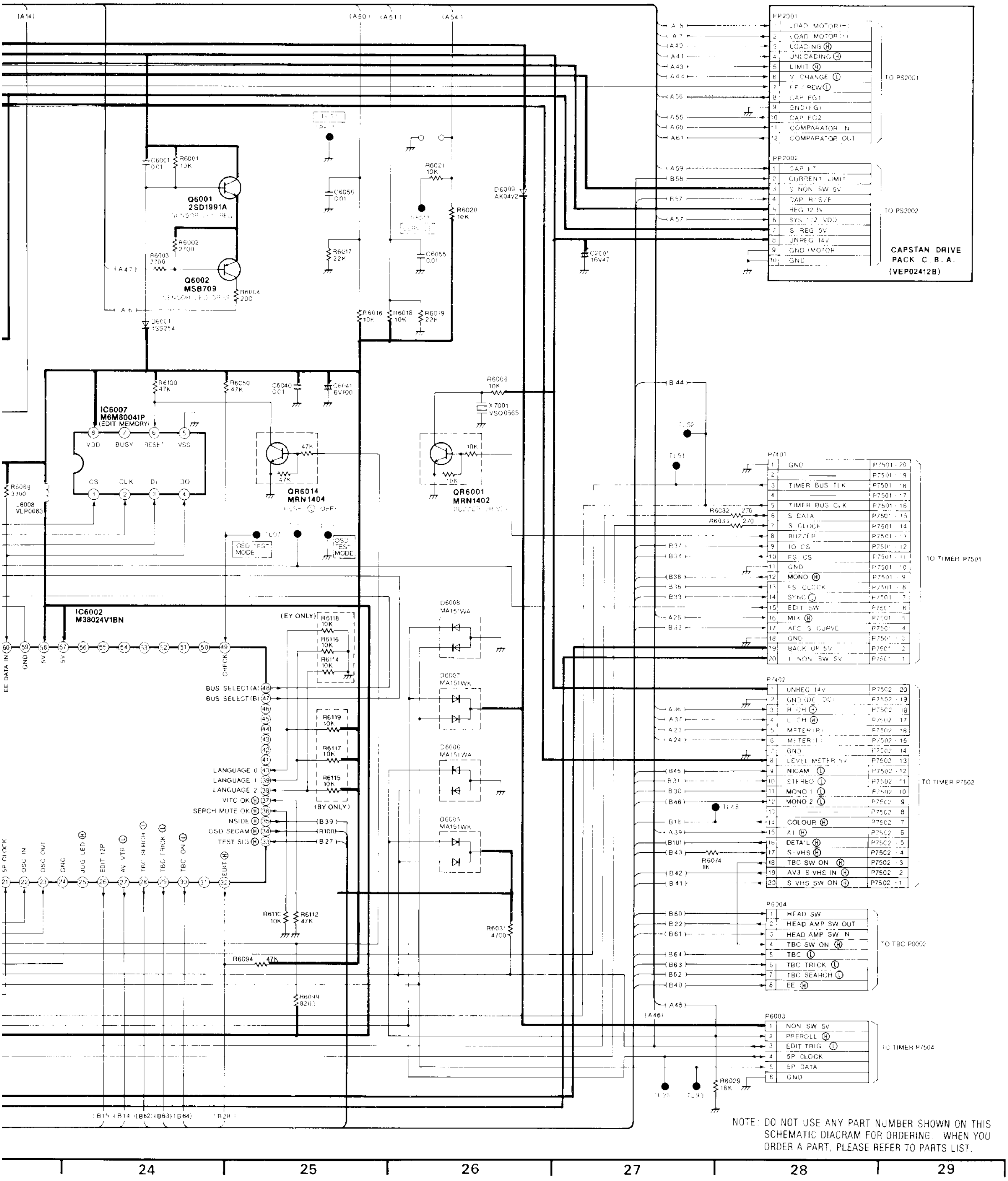
CAPSTAN SERVO PHASE LOOP

CY


(A42)
(A45)
(A49)
(A35)
(A28)
(A60)
(A58)
(A61)
(A38)
(A14)
6008
431CLP
QR6015
MRN2402
10K
10K
C2010
0.01
VCC
REV SLOW Ⓗ
SP Ⓗ
GND
LOGIC
IC2001
AN3727S
R6075
10K
R6076
56K
R2019
2200
R2004
100K
QR2002
MRN2404
47K
47K
D2005 1SS254
D2004 1SS254
D2003 1SS254
D2002 1SS254
R2018
100K
VDD
X1
X0
DECODER
Y1
YC
Z1
Z0
VEE
VSS
IC2002
μPD4053BG
R2016
6800
R2015
4700
C6017
50V3.3
Q2002
MSB709
C6001
0.01
R6003
2700
D6001
1SS254
R610
47K
IC6007
M6M80041P
(EDIT MEMORY)
VDD
BUSY
RESET
CS
CLK
D
C6026
0.022
R6055
3300
C6027
0.1
R6100
33K
R6091
47K
R6086
47K
R6090
10K
R6089
10K
R6088
3300
R6087
3300
R6066
3300
L6006
VLP0083
L6007
VLP0083
IC6002
M38024V1BN
REC P1/P2
EE CS
EE CLOCK
EE DATA OUT
EE DATA IN
GND
5V
5V
2001
1213
D2001
1SS254
R6081
2200
R2013
22K
R2014
22K
Q2001
MSB709
X2
X3
Y0
Y2
Y3
IC6005
μPD4052BG
R6066
47K
Q6006
MSD601
D6015
MA723
R6079
0K
B51
B52
B50
B19
OSD CLOCK
OSD DATA
OSD CS
OSD ON Ⓗ
L CLOCK CTL
SYS CLOCK
SYS DATA OUT
SYS DATA IN
DATA INH
CLOCK IN
DATA OUT
DATA IN
GND
RESET Ⓛ
L CLOCK
SP CLOCK
OSC IN
OSC OUT
GND
JOG LED Ⓗ
EDIT I/P
AV VTR Ⓛ
TBC SERCH Ⓛ
TBC TRICK Ⓛ
R6098
10K
R6097
10K
R6096
2200
QR6012
MRN1404
47K
47K
Q6005
MSD601
X6002
EFOEC7374A4E
(7.37MHz)
R6123
1K
C6063
2200P
C6042
6V47
C6043
0.1
(B35)
(B53)
(B15)
(B14)
(B62)
(B63)
19
20
21
22
23
24

CYLINDER SERVO SPEED LOOP

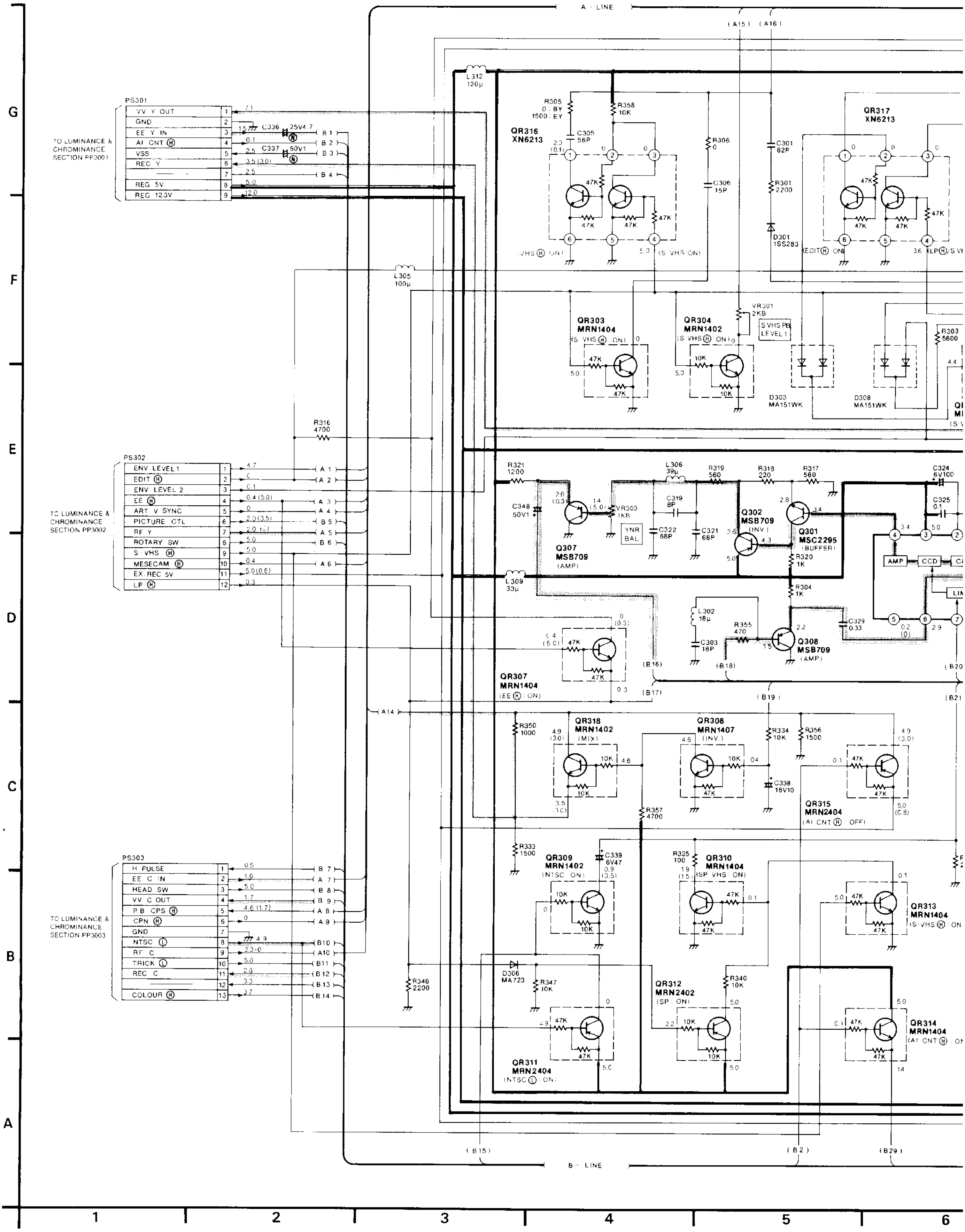
CYLINDER SERVO PHASE LOOP

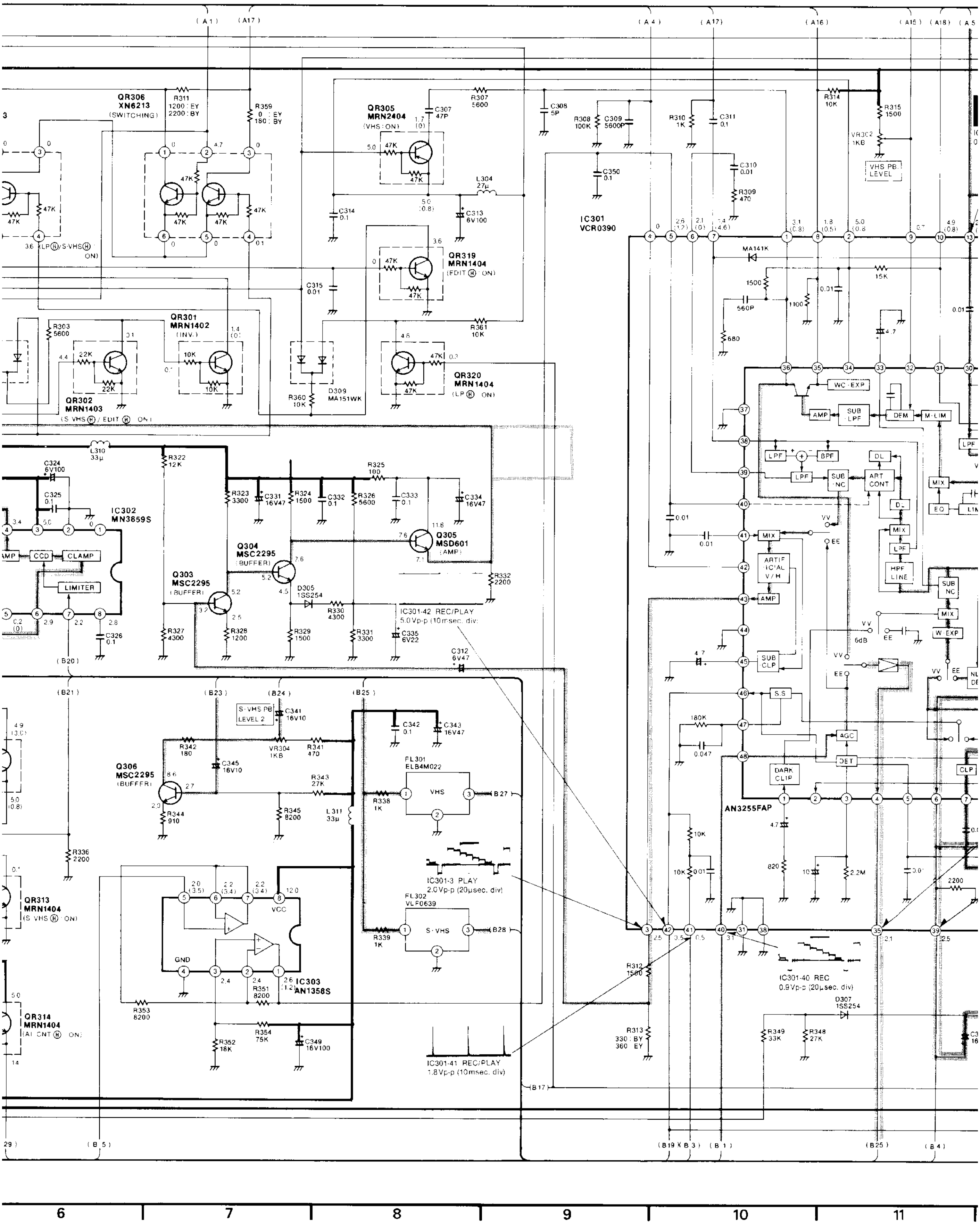


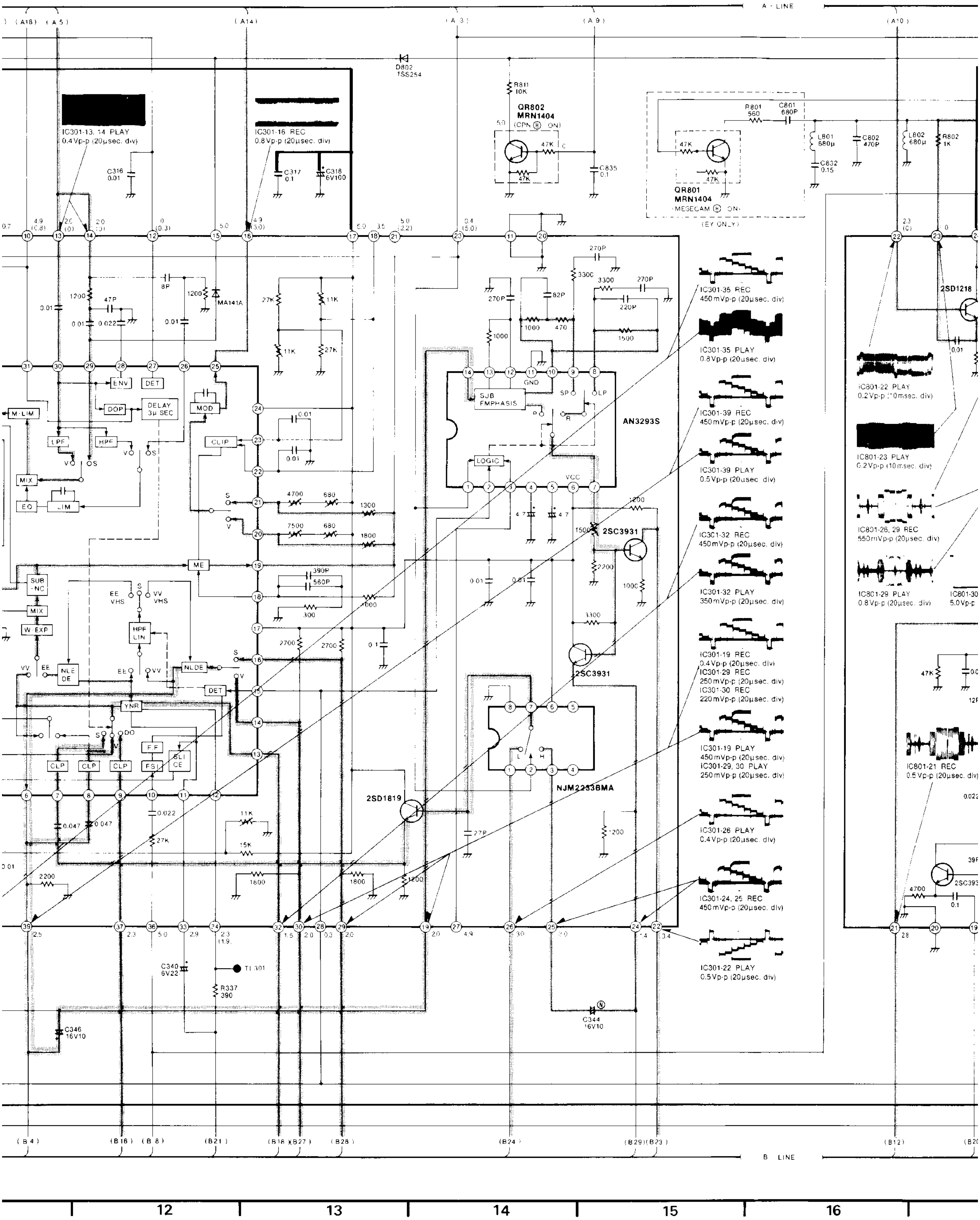
(A14)
(A50)
(A51)
(A54)
C6001 0.01
R6001 10K
Q6001 2SD1991A
R6002 2700
R6003 2700
(A47)
Q6002 MSB709
R6004 200
D6001 1SS254
C6056 0.01
R6017 22K
R6021 10K
R6020 10K
C6055 0.01
R6016 10K
R6018 10K
R6019 22K
D6009 AK04V2
C2001 16V47
R6100 47K
R6050 47K
C6040 0.01
C6041 6V100
R6006 10K
X7001 VSQ0565
IC6007 M6M80041P (EDIT MEMORY)
VDD
BUSY
RESET
VSS
CS
CLK
DI
DO
R6068 3300
L6008 VLP0083
QR6014 MRN1404
47K
QR6001 MRN1402
10K
OSD "FS" MODE
OSD "FS" MODE
TL52
TL51
IC6002 M38024V1BN
EE DATA IN
GND
5V
5V
CHECK
BUS SELECT(A)
BUS SELECT(B)
LANGUAGE 0
LANGUAGE 1
LANGUAGE 2
VITC OK Ⓗ
SERCH MUTE OK Ⓗ
NSIDE Ⓗ
OSD SECAM Ⓗ
TEST SIG Ⓗ
(EY ONLY)
R6118 10K
R6116 10K
R6114 10K
R6119 10K
R6117 10K
R6115 10K
(BY ONLY)
(B39)
(B100)
(B27)
SP CLOCK
OSC IN
OSC OUT
GND
JOG LED Ⓗ
EDIT 12P
AV VTR Ⓛ
TBC SERCH Ⓛ
TBC TRICK Ⓛ
TBC ON Ⓛ
EDIT Ⓗ
R6110 10K
R6112 47K
R6094 47K
R6049 8200
D6008 MA151WA
D6007 MA151WK
D6006 MA151WA
D6005 MA151WK
R6031 4700
R6032 270
R6033 270
R6074 1K
TL48
TL55
TL53
R6029 18K
(B15)
(B14)
(B62)
(B63)
(B64)
(B28)
PP2001
1 LOAD MOTOR(−)
2 LOAD MOTOR(+)
3 LOADING Ⓗ
4 UNLOADING Ⓗ
5 LIMIT Ⓗ
6 V. CHANGE Ⓛ
7 FF / REW Ⓛ
8 CAP FG1
9 GND(FG)
10 CAP FG2
11 COMPARATOR IN
12 COMPARATOR OUT
TO PS2001
PP2002
1 CAP ET
2 CURRENT LIMIT
3 S. NON. SW 5V
4 CAP. R/S/F
5 REG 12.4V
6 SYS 12 VDD
7 S. REG 5V
8 UNREG 14V
9 GND (MOTOR)
10 GND
TO PS2002
CAPSTAN DRIVE PACK C.B.A. (VEP02412B)
A 5
A 7
A40
A41
A43
A44
A56
A55
A60
A61
A59
B58
B57
A57
B 44
P7401
1 GND
2
3 TIMER BUS TLK
4
5 TIMER BUS CLK
6 S. DATA
7 S. CLOCK
8 BUZZER
9 IO CS
10 FS CS
11 GND
12 MONO Ⓗ
13 FS CLOCK
14 SYNC Ⓛ
15 EDIT SW
16 MIX Ⓗ
17 AFC S CURVE
18 GND
19 BACK UP 5V
20 I. NON SW 5V
P7501-20
P7501-19
P7501-18
P7501-17
P7501-16
P7501-15
P7501-14
P7501-13
P7501-12
P7501-11
P7501-10
P7501-9
P7501-8
P7501-7
P7501-6
P7501-5
P7501-4
P7501-3
P7501-2
P7501-1
TO TIMER P7501
B37
B34
B38
B36
B33
A26
B32
P7402
1 UNREG 14V
2 GND (DC-DC)
3 H. CH Ⓗ
4 L. CH Ⓗ
5 METER (R)
6 METER (L)
7 GND
8 LEVEL METER 5V
9 NICAM Ⓛ
10 STEREO Ⓛ
11 MONO 1 Ⓛ
12 MONO 2 Ⓛ
13
14 COLOUR Ⓗ
15 AT Ⓗ
16 DETAIL Ⓗ
17 S-VHS Ⓗ
18 TBC SW ON Ⓗ
19 AV3 S VHS IN Ⓗ
20 S VHS SW ON Ⓗ
P7502-20
P7502-19
P7502-18
P7502-17
P7502-16
P7502-15
P7502-14
P7502-13
P7502-12
P7502-11
P7502-10
P7502-9
P7502-8
P7502-7
P7502-6
P7502-5
P7502-4
P7502-3
P7502-2
P7502-1
TO TIMER P7502
A36
A37
A23
A24
B45
B31
B30
B46
B18
A39
B101
B43
B42
B41
P6004
1 HEAD SW
2 HEAD AMP SW OUT
3 HEAD AMP SW IN
4 TBC SW ON Ⓗ
5 TBC Ⓗ
6 TBC TRICK Ⓛ
7 TBC SEARCH Ⓛ
8 EE Ⓗ
TO TBC P9002
B60
B22
B61
B64
B63
B62
B40
A45
(A46)
P6003
1 NON SW 5V
2 PREROLL Ⓗ
3 EDIT TRIG Ⓛ
4 SP CLOCK
5 SP DATA
6 GND
TO TIMER P7504
24
25
26
27
28
29

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

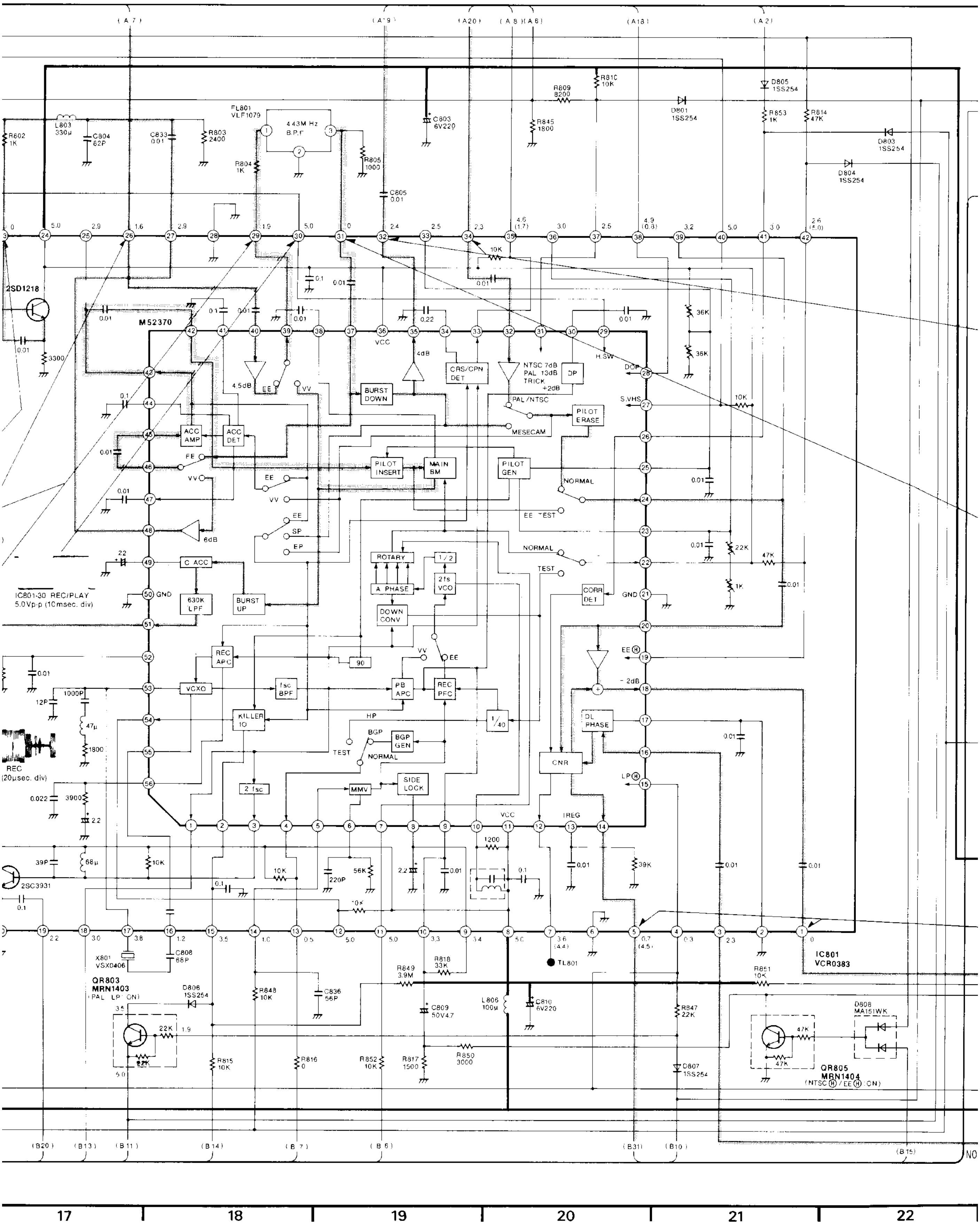
7. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM


A · LINE
B · LINE
(A15)
(A16)
PS301
VV Y OUT
GND
EE Y IN
AI CNT Ⓗ
VSS
REC Y
REG 5V
REG 12.3V
TO LUMINANCE & CHROMINANCE SECTION PP3001
C336 25V4.7
C337 50V1
PS302
ENV LEVEL 1
EDIT Ⓗ
ENV LEVEL 2
EE Ⓗ
ART V SYNC
PICTURE CTL
RF Y
ROTARY SW
S VHS Ⓗ
MESECAM Ⓗ
EX REC 5V
LP Ⓗ
TO LUMINANCE & CHROMINANCE SECTION PP3002
PS303
H PULSE
EE C IN
HEAD SW
VV C OUT
P.B CPS Ⓗ
CPN Ⓗ
GND
NTSC Ⓛ
RF C
TRICK Ⓛ
REC C
COLOUR Ⓗ
TO LUMINANCE & CHROMINANCE SECTION PP3003
L312 120μ
R305 0 : BY 1500 : EY
R358 10K
QR316 XN6213
C305 56P
R306 0
C306 15P
C301 82P
R301 2200
D301 1SS283
QR317 XN6213
(VHS Ⓗ ON)
(S VHS ON)
(EDIT Ⓗ ON)
(LP Ⓗ/S VH
L305 100μ
QR303 MRN1404
(S VHS Ⓗ ON)
QR304 MRN1402
(S VHS Ⓗ ON)
VR301 2KB
S VHS PB LEVEL 1
D303 MA151WK
D308 MA151WK
R303 5600
R316 4700
R321 1200
C348 50V1
Q307 MSB709 (AMP)
VR303 1KB
YNR BAL
L306 39μ
C319 8P
C322 68P
C321 68P
R319 560
R318 220
R317 560
Q302 MSB709 (INV)
Q301 MSC2295 (BUFFER)
R320 1K
C324 6V100
C325 0.1
AMP
CCD
L309 33μ
R304 1K
L302 18μ
C303 18P
R355 470
Q308 MSB709 (AMP)
C329 0.33
QR307 MRN1404 (EE Ⓗ ON)
(B16)
(B17)
(B18)
(B19)
(B20)
(B21)
(A14)
R350 1000
QR318 MRN1402 (MIX)
QR308 MRN1407 (INV)
R334 10K
R356 1500
C338 16V10
QR315 MRN2404 (AI CNT Ⓗ OFF)
R357 4700
R333 1500
QR309 MRN1402 (NTSC ON)
C339 6V47
R335 100
QR310 MRN1404 (SP VHS ON)
QR313 MRN1404 (S VHS Ⓗ ON
D306 MA723
R347 10K
R346 2200
R340 10K
QR312 MRN2402 (SP ON)
QR314 MRN1404 (AI CNT Ⓗ ON
QR311 MRN2404 (NTSC Ⓛ ON)
(B15)
(B2)
(B29)
G
F
E
D
C
B
A
1
2
3
4
5
6


QR306
XN6213
(SWITCHING)
R311 1200 : EY 2200 : BY
R359 0 : EY 180 : BY
QR305
MRN2404
(VHS : ON)
C307 47P
R307 5600
L304 27µ
C313 6V100
C314 0.1
QR319
MRN1404
(EDIT Ⓗ ON)
C315 0.01
R361 10K
QR301
MRN1402
(INV.)
QR302
MRN1403
(S VHS Ⓗ / EDIT Ⓗ ON)
R303 5600
R360 10K
D309 MA151WK
QR320
MRN1404
(LP Ⓗ ON)
C308 5P
R308 100K
C309 5600P
C350 0.1
R310 1K
C311 0.1
C310 0.01
R309 470
R314 10K
R315 1500
VR302 1KB
VHS PB LEVEL
IC301
VCR0390
MA141K
L310 33µ
C324 6V100
C325 0.1
IC302
MN3859S
CCD
CLAMP
LIMITER
R322 12K
R325 100
R323 3300
C331 16V47
R324 1500
C332 0.1
R326 5600
C333 0.1
C334 16V47
Q304
MSC2295
(BUFFER)
Q305
MSD601
(AMP)
Q303
MSC2295
(BUFFER)
D305 1SS254
R330 4300
R332 2200
R327 4300
R328 1200
R329 1500
R331 3300
C335 6V22
C326 0.1
IC301-42 REC/PLAY
5.0Vp-p (10msec. div)
C312 6V47
S-VHS PB LEVEL 2
C341 16V10
VR304 1KB
R342 180
R341 470
C345 16V10
Q306
MSC2295
(BUFFER)
R343 27K
R344 910
R345 8200
L311 33µ
C342 0.1
C343 16V47
FL301
ELB4M022
VHS
R338 1K
FL302
VLF0639
S-VHS
R339 1K
IC301-3 PLAY
2.0Vp-p (20µsec. div)
IC301-41 REC/PLAY
1.8Vp-p (10msec. div)
R336 2200
QR313
MRN1404
(S VHS Ⓗ ON)
QR314
MRN1404
(AI CNT Ⓗ ON)
IC303
AN1358S
VCC
GND
R353 8200
R351 8200
R354 75K
R352 18K
C349 16V100
AN3255FAP
WC·EXP
AMP
SUB LPF
DEM
M·LIM
LPF
BPF
SUB NC
ART CONT
DL
MIX
EQ
LIM
ARTIF ICIAL V/H
HPF LINE
W·EXP
SUB CLP
S.S
AGC
DET
DARK CLIP
CLP
VV
EE
6dB
R312 1500
R313 330 : BY 360 : EY
R349 33K
R348 27K
D307 1SS254
IC301-40 REC
0.9Vp-p (20µsec. div)
180K
0.047
10K
2.2M
820
(A1) (A17) (A4) (A17) (A16) (A15) (A18) (A5)
(B20) (B21) (B23) (B24) (B25) (B27) (B28) (B17) (B5) (B19) (B3) (B1) (B25) (B4)
6
7
8
9
10
11

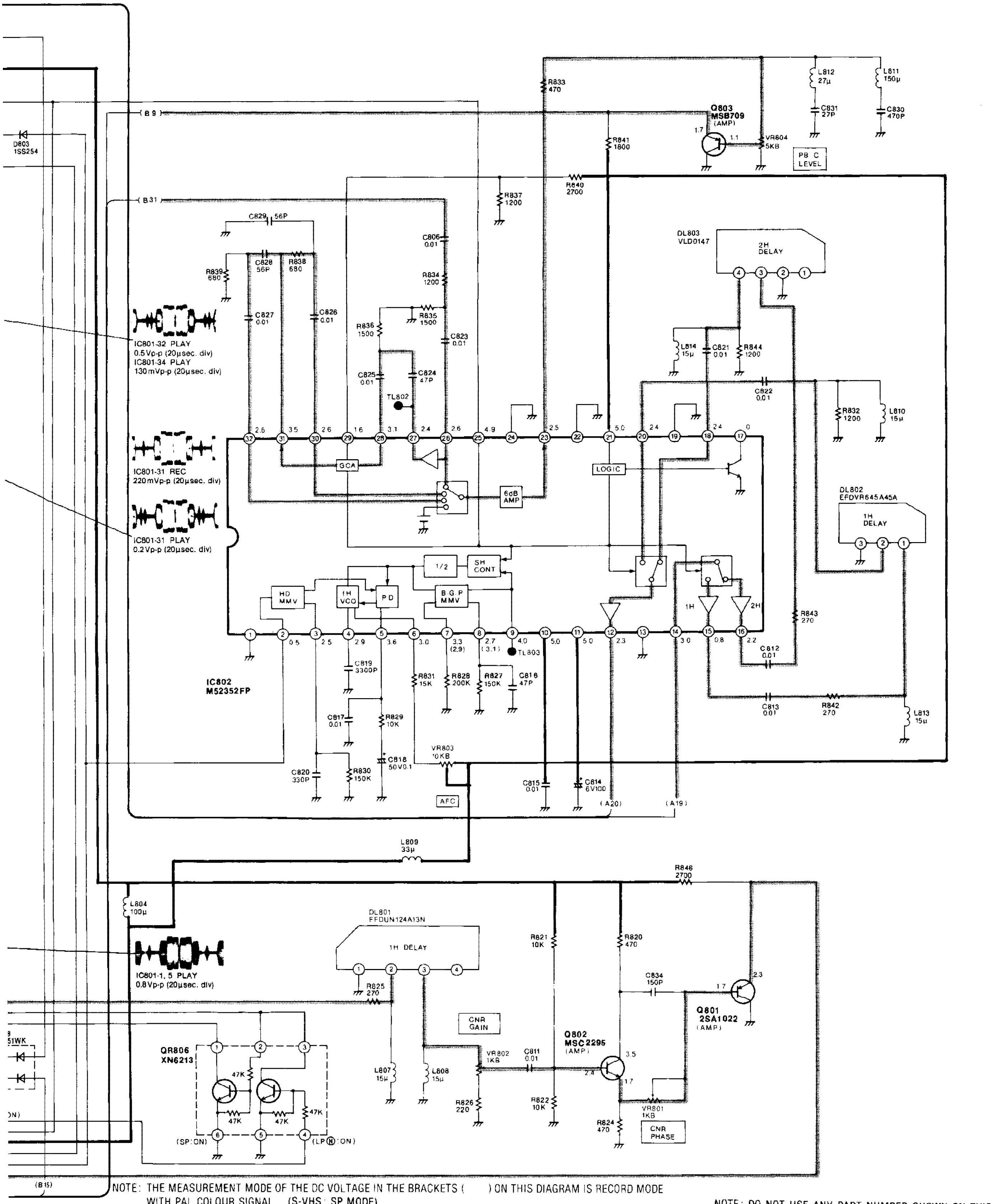

A · LINE
(A18)
(A5)
(A14)
(A3)
(A9)
(A10)
D802
1SS254
R811
10K
QR802
MRN1404
(CPN Ⓗ ON)
47K
47K
C835
0.1
R801
560
C801
680P
L801
680μ
C802
470P
L802
680μ
R802
1K
C832
0.15
QR801
MRN1404
(MESECAM Ⓗ ON)
(EY ONLY)
IC301-13, 14 PLAY
0.4Vp-p (20μsec. div)
IC301-16 REC
0.8Vp-p (20μsec. div)
C316
0.01
C317
0.1
C318
6V100
MA141A
ENV
DET
DOP
DELAY
3μ SEC
MOD
M-LIM
LPF
HPF
CLIP
MIX
EQ
LIM
ME
SUB
-NC
W.EXP
NLE
DE
HPF
LIN
NLDE
DET
YNR
CLP
FF
FSI
SLI
CE
EE
VHS
VV
VHS
AN3293S
SUB
EMPHASIS
LOGIC
GND
VCC
SP
LP
2SC3931
2SC3931
2SD1819
NJM2233BMA
2SD1218
C340
6V22
TL301
R337
390
C346
16V10
C344
16V10
IC301-35 REC
450mVp-p (20μsec. div)
IC301-35 PLAY
0.8Vp-p (20μsec. div)
IC301-39 REC
450mVp-p (20μsec. div)
IC301-39 PLAY
0.5Vp-p (20μsec. div)
IC301-32 REC
450mVp-p (20μsec. div)
IC301-32 PLAY
350mVp-p (20μsec. div)
IC301-19 REC
0.4Vp-p (20μsec. div)
IC301-29 REC
250mVp-p (20μsec. div)
IC301-30 REC
220mVp-p (20μsec. div)
IC301-19 PLAY
450mVp-p (20μsec. div)
IC301-29, 30 PLAY
250mVp-p (20μsec. div)
IC301-26 PLAY
0.4Vp-p (20μsec. div)
IC301-24, 25 REC
450mVp-p (20μsec. div)
IC301-22 PLAY
0.5Vp-p (20μsec. div)
IC801-22 PLAY
0.2Vp-p (10msec. div)
IC801-23 PLAY
0.2Vp-p (10msec. div)
IC801-26, 29 REC
550mVp-p (20μsec. div)
IC801-29 PLAY
0.8Vp-p (20μsec. div)
IC801-30
5.0Vp-p
IC801-21 REC
0.5Vp-p (20μsec. div)
2SC393
(B4)
(B16)
(B8)
(B21)
(B18)
(B27)
(B28)
(B24)
(B29)
(B23)
(B12)
B LINE
12
13
14
15
16

MAIN SIGNAL PATH IN REC MODE


(A7)
(A19)
(A20)
(A8)
(A6)
(A18)
(A2)
FL801
VLF1079
4.43M Hz
B.P.F
R802
1K
L803
330μ
C804
62P
C833
0.01
R803
2400
R804
1K
R805
1000
C805
0.01
C803
6V220
R809
8200
R810
10K
R845
1800
D805
1SS254
D801
1SS254
R853
1K
R814
47K
D803
1SS254
D804
1SS254
2SD1218
3300
M52370
ACC AMP
ACC DET
BURST DOWN
CRS/CPN DET
DP
NTSC 7dB
PAL 13dB
TRICK
+2dB
PAL/NTSC
PILOT ERASE
MESECAM
PILOT INSERT
MAIN BM
PILOT GEN
NORMAL
EE TEST
4.5dB
6dB
EE
VV
FE
SP
EP
H.SW
DOP
S.VHS
C ACC
630K LPF
BURST UP
ROTARY
1/2
A PHASE
2fs VCO
DOWN CONV
CORR DET
GND
IC801-30 REC/PLAY
5.0Vp-p (10msec. div)
REC APC
90
VCXO
fsc BPF
PB APC
REC PFC
KILLER 10
HP
BGP
BGP GEN
TEST
1/40
DL PHASE
CNR
EE Ⓗ
-2dB
LP Ⓗ
2 fsc
MMV
SIDE LOCK
VCC
IREG
REC
(20μsec. div)
2SC3931
X801
VSX0406
C808
68P
QR803
MRN1403
(PAL LP ON)
D806
1SS254
22K
82K
R848
10K
C836
56P
R849
3.9M
R818
33K
C809
50V4.7
L806
100μ
C810
6V220
TL801
R851
10K
R847
22K
D807
1SS254
R815
10K
R816
0
R852
10K
R817
1500
R850
3000
D808
MA151WK
QR805
MRN1404
(NTSC Ⓗ / EE Ⓗ ON)
IC801
VCR0383
(B20)
(B13)
(B11)
(B14)
(B7)
(B6)
(B31)
(B10)
(B15)
17
18
19
20
21
22

EC MODE

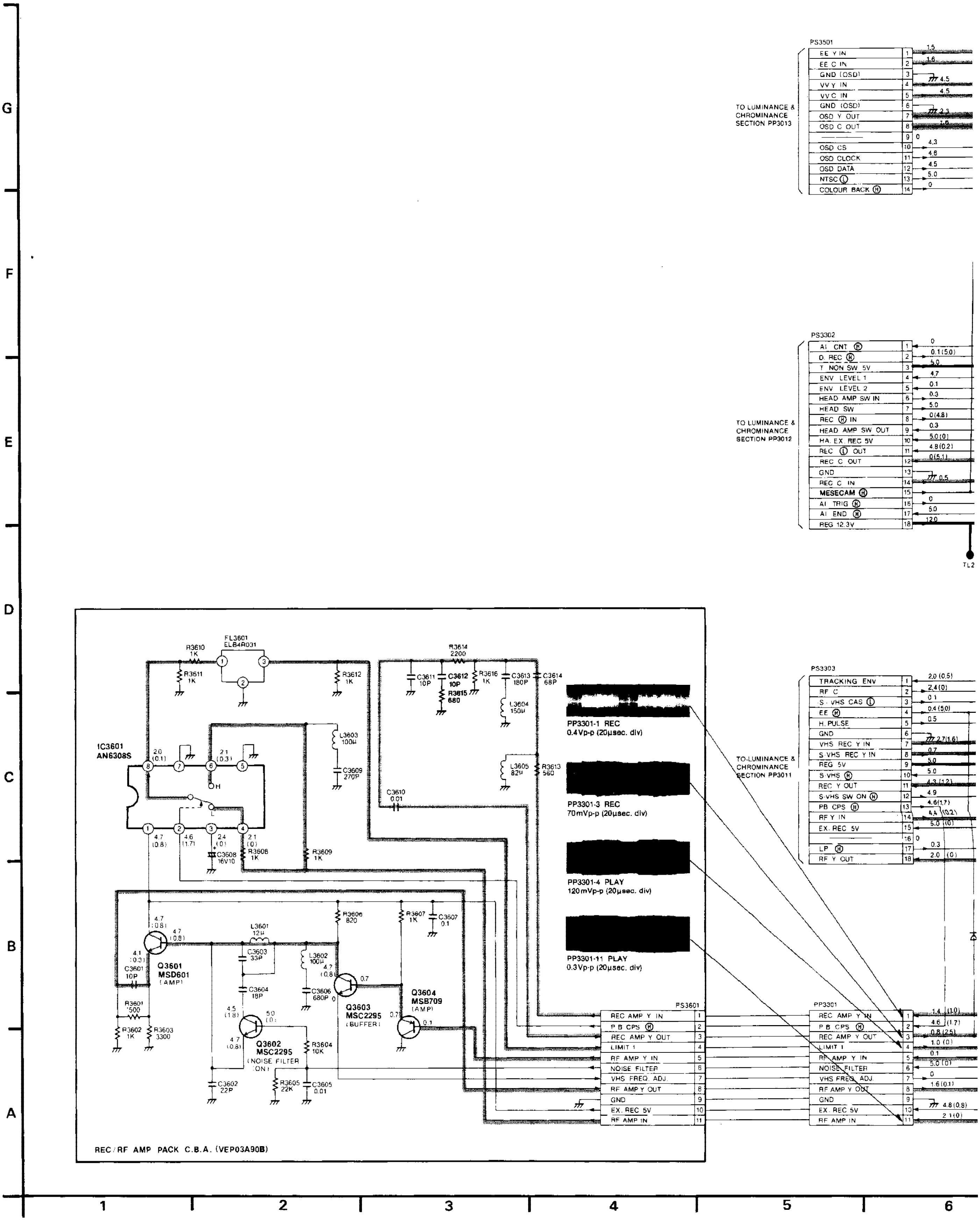
MAIN SIGNAL PATH IN PLAYBACK MODE


B9
B31
D803
1SS254
R833
470
Q803
MSB709
(AMP)
VR804
5KB
PB C LEVEL
R841
1800
L812
27μ
L811
150μ
C831
27P
C830
470P
R837
1200
R840
2700
C829 56P
C828
56P
R838
680
R839
680
C827
0.01
C826
0.01
C806
0.01
R834
1200
R835
1500
R836
1500
C823
0.01
C825
0.01
C824
47P
TL802
DL803
VLD0147
2H DELAY
L814
15μ
C821
0.01
R844
1200
C822
0.01
R832
1200
L810
15μ
IC801-32 PLAY
0.5Vp-p (20μsec. div)
IC801-34 PLAY
130mVp-p (20μsec. div)
IC801-31 REC
220mVp-p (20μsec. div)
IC801-31 PLAY
0.2Vp-p (20μsec. div)
GCA
6dB AMP
LOGIC
1/2
SH CONT
HD MMV
1H VCO
P D
B G P MMV
1H
2H
DL802
EFDVR645A45A
1H DELAY
R843
270
IC802
M52352FP
C819
3300P
R831
15K
R828
200K
R827
150K
C816
47P
TL803
C817
0.01
R829
10K
C818
50V0.1
VR803
10KB
C820
330P
R830
150K
AFC
C815
0.01
C814
6V100
C812
0.01
C813
0.01
R842
270
L813
15μ
(A20)
(A19)
L809
33μ
R846
2700
L804
100μ
DL801
EFDUN124A13N
1H DELAY
R825
270
R821
10K
R820
470
C834
150P
Q801
2SA1022
(AMP)
IC801-1, 5 PLAY
0.8Vp-p (20μsec. div)
CNR GAIN
Q802
MSC2295
(AMP)
QR806
XN6213
47K
L807
15μ
L808
15μ
VR802
1KB
C811
0.01
R826
220
R822
10K
R824
470
VR801
1KB
CNR PHASE
(SP:ON)
(LPⓗ:ON)
51WK
(B15)

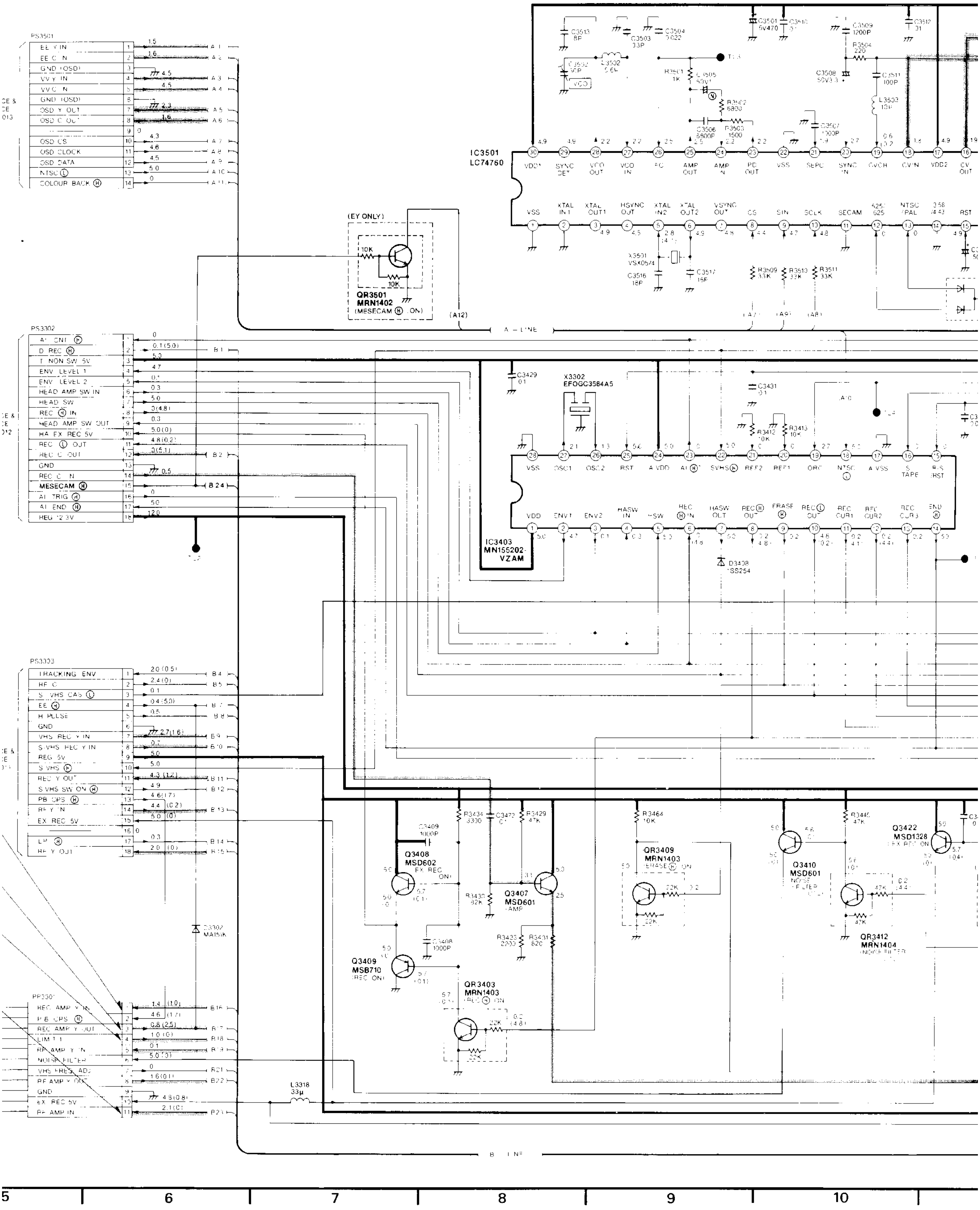
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

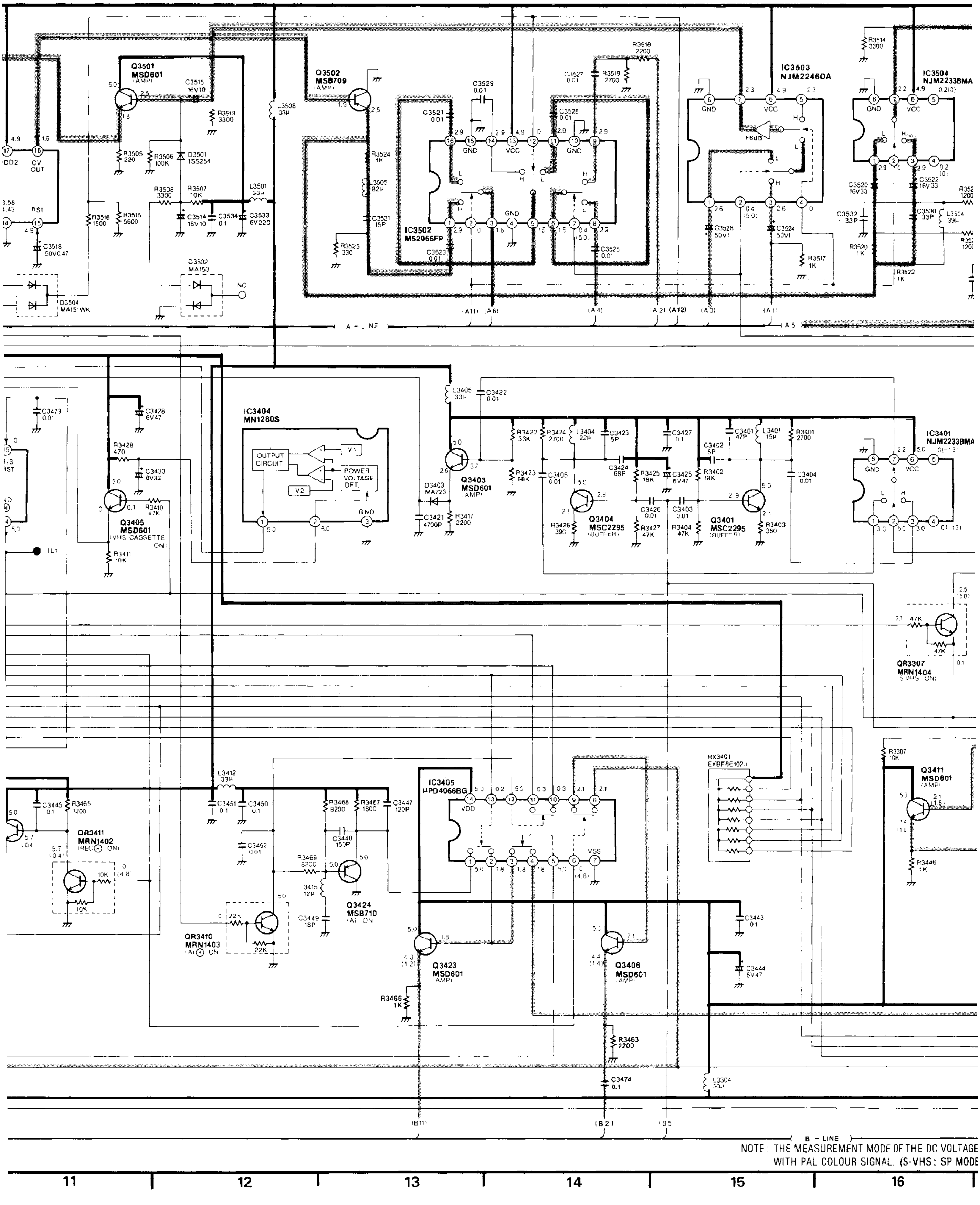
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

10. SUB LUMINANCE & CHROMINANCE PACK & REC/RF AMP SCHEMATIC DIAGRA


G
F
E
D
C
B
A
1
2
3
4
5
6
PS3501
EE Y IN
EE C IN
GND (OSD)
VV Y IN
VV C IN
GND (OSD)
OSD Y OUT
OSD C OUT
OSD CS
OSD CLOCK
OSD DATA
NTSC Ⓛ
COLOUR BACK Ⓗ
TO LUMINANCE & CHROMINANCE SECTION PP3013
PS3302
AI CNT Ⓗ
D. REC Ⓗ
T. NON SW 5V
ENV LEVEL 1
ENV LEVEL 2
HEAD AMP SW IN
HEAD SW
REC Ⓗ IN
HEAD AMP SW OUT
HA. EX. REC 5V
REC Ⓛ OUT
REC C OUT
GND
REC C IN
MESECAM Ⓗ
AI TRIG Ⓗ
AI END Ⓗ
REG 12.3V
TO LUMINANCE & CHROMINANCE SECTION PP3012
TL2
PS3303
TRACKING ENV
RF C
S · VHS CAS Ⓛ
EE Ⓗ
H. PULSE
GND
VHS REC Y IN
S.VHS REC Y IN
REG 5V
S.VHS Ⓗ
REC Y OUT
S.VHS SW ON Ⓗ
PB CPS Ⓗ
RF Y IN
EX. REC 5V
LP Ⓗ
RF Y OUT
TO LUMINANCE & CHROMINANCE SECTION PP3011
FL3601 ELB4R031
R3610 1K
R3611 1K
R3612 1K
IC3601 AN6308S
L3603 100μ
C3609 270P
C3608 16V10
R3608 1K
R3609 1K
R3614 2200
C3611 10P
C3612 10P
R3615 680
R3616 1K
C3613 180P
C3614 68P
L3604 150μ
L3605 82μ
R3613 560
C3610 0.01
PP3301-1 REC
0.4Vp-p (20μsec. div)
PP3301-3 REC
70mVp-p (20μsec. div)
PP3301-4 PLAY
120mVp-p (20μsec. div)
PP3301-11 PLAY
0.3Vp-p (20μsec. div)
Q3601 MSD601 (AMP)
C3601 10P
R3601 500
R3602 1K
R3603 3300
L3601 12μ
C3603 33P
C3604 18P
L3602 100μ
C3606 680P
R3606 820
R3607 1K
C3607 0.1
Q3602 MSC2295 (NOISE FILTER ON)
Q3603 MSC2295 (BUFFER)
Q3604 MSB709 (AMP)
R3604 10K
C3602 22P
R3605 22K
C3605 0.01
PS3601
PP3301
REC AMP Y IN
P.B CPS Ⓗ
REC AMP Y OUT
LIMIT 1
RF AMP Y IN
NOISE FILTER
VHS FREQ. ADJ.
RF AMP Y OUT
GND
EX. REC 5V
RF AMP IN
REC/RF AMP PACK C.B.A. (VEP03A90B)

EMATIC DIAGRAM

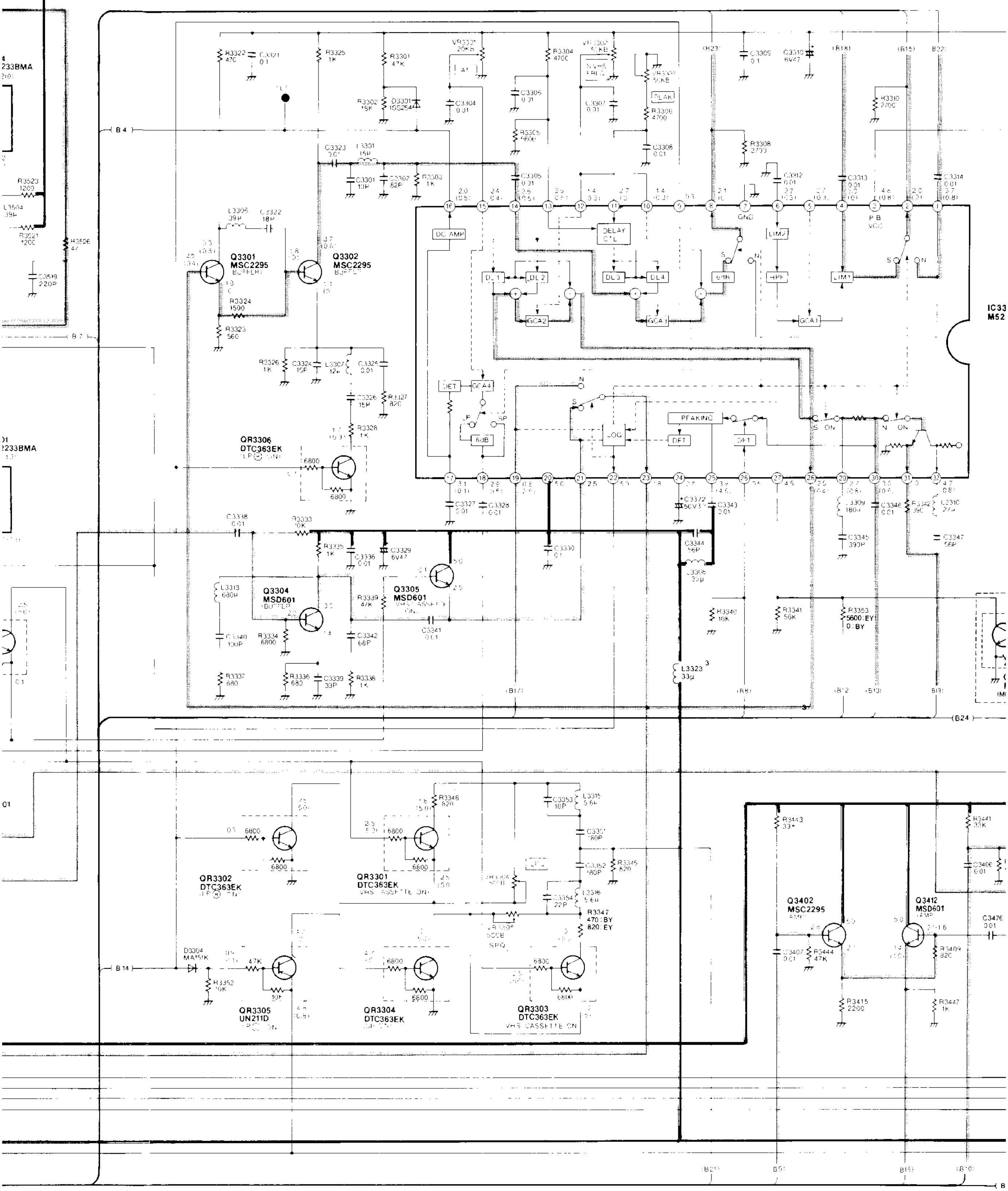

PS3501
EE Y IN
EE C IN
GND (OSD)
VV Y IN
VV C IN
GND (OSD)
OSD Y OUT
OSD C OUT
OSD CS
OSD CLOCK
OSD DATA
NTSC Ⓛ
COLOUR BACK Ⓗ
IC3501
LC74760
VDD1
SYNC DET
VCO OUT
VCO IN
FC
AMP OUT
AMP IN
PD OUT
VSS
SEPC
SYNC IN
CVCH
CVIN
VDD2
CV OUT
VSS
XTAL IN1
XTAL OUT1
HSYNC OUT
XTAL IN2
XTAL OUT2
VSYNC OUT
CS
SIN
SCLK
SECAM
525/625
NTSC /PAL
3.58 /4.43
RST
X3501
VSX0574
C3516 18P
C3517 15P
R3509 33K
R3510 33K
R3511 33K
(EY ONLY)
QR3501
MRN1402
(MESECAM Ⓗ : ON)
(A12)
A – LINE
PS3302
AI CNT Ⓟ
D REC Ⓗ
T NON SW 5V
ENV LEVEL 1
ENV LEVEL 2
HEAD AMP SW IN
HEAD SW
REC Ⓗ IN
HEAD AMP SW OUT
HA EX REC 5V
REC Ⓛ OUT
REC C OUT
GND
REC C IN
MESECAM Ⓗ
AI TRIG Ⓗ
AI END Ⓗ
REG 12.3V
C3429 0.1
X3302
EFOGC3584A5
C3431 0.1
R3412 10K
R3413 10K
D3408
1SS254
IC3403
MN155202
VZAM
VSS
OSC1
OSC2
RST
A VDD
AI Ⓗ
SVHS Ⓗ
REF2
REF1
ORC
NTSC Ⓛ
A VSS
S TAPE
R/S RST
VDD
ENV1
ENV2
HASW IN
HSW
REC Ⓗ IN
HASW OUT
REC Ⓗ OUT
ERASE Ⓗ
REC Ⓛ OUT
REC CUR1
REC CUR2
REC CUR3
END
PS3303
TRACKING ENV
RF C
S VHS CAS Ⓛ
EE Ⓗ
H PULSE
GND
VHS REC Y IN
S-VHS REC Y IN
REG 5V
S VHS Ⓟ
REC Y OUT
S VHS SW ON Ⓗ
PB CPS Ⓗ
RF Y IN
EX REC 5V
LP Ⓗ
RF Y OUT
D3302
MA151K
PP3301
REC AMP Y IN
P.B. CPS Ⓗ
REC AMP Y OUT
LIMIT 1
RF AMP Y IN
NOISE FILTER
VHS FREQ ADJ
RF AMP Y OUT
GND
EX REC 5V
RF AMP IN
L3318 33μ
B – LINE
C3409 1000P
Q3408
MSD602
(EX REC ON)
R3434 3300
C3472 0.1
R3429 47K
R3430 82K
Q3407
MSD601
(AMP)
R3433 2200
R3431 820
C3408 1000P
Q3409
MSB710
(REC ON)
QR3403
MRN1403
(REC Ⓗ ON)
R3464 10K
QR3409
MRN1403
(ERASE Ⓗ ON)
Q3410
MSD601
(NOISE FILTER)
R3440 47K
QR3412
MRN1404
(NOISE FILTER)
Q3422
MSD1328
(EX REC ON)
5
6
7
8
9
10


Q3501
MSD601
(AMP)
Q3502
MSB709
(AMP)
IC3502
M52055FP
IC3503
NJM2246DA
IC3504
NJM2233BMA
IC3404
MN1280S
OUTPUT CIRCUIT
POWER VOLTAGE DET
V1
V2
GND
Q3403
MSD601
(AMP)
Q3404
MSC2295
(BUFFER)
Q3401
MSC2295
(BUFFER)
IC3401
NJM2233BMA
Q3405
MSD601
(VHS CASSETTE ON)
QR3307
MRN1404
(S-VHS ON)
IC3405
μPD4066BG
VDD
VSS
RX3401
EXBF8E102J
Q3411
MSD601
(AMP)
QR3411
MRN1402
(REC Ⓗ ON)
QR3410
MRN1403
(AI Ⓗ ON)
Q3424
MSB710
(AI ON)
Q3423
MSD601
(AMP)
Q3406
MSD601
(AMP)
D3501
1SS254
D3502
MA153
D3504
MA151WK
D3403
MA723
VCC
GND
+6dB
CV OUT
RST
NC
TL1
A – LINE
(A11)
(A6)
(A4)
(A2)
(A12)
(A3)
(A1)
A5
B – LINE
(B11)
(B2)
(B5)
R3505 220
R3506 100K
R3513 3300
C3515 16V10
R3508 3300
R3507 10K
L3501 33μ
C3514 16V10
C3534 0.1
C3533 6V220
R3516 1500
R3515 5600
C3518 50V0.47
L3508 33μ
R3524 1K
L3505 82μ
C3531 15P
R3525 330
C3529 0.01
C3521 0.01
C3523 0.01
C3526 0.01
C3527 0.01
R3519 2700
R3518 2200
C3525 0.01
C3528 50V1
C3524 50V1
R3517 1K
R3514 3300
C3520 16V33
C3522 16V33
C3532 33P
C3530 33P
L3504 39μ
R3520 1K
R3522 1K
C3473 0.01
C3428 6V47
R3428 470
C3430 6V33
R3410 47K
R3411 10K
L3405 33μ
C3422 0.01
C3421 4700P
R3417 2200
R3422 33K
R3424 2700
L3404 22μ
C3423 5P
C3427 0.1
C3401 47P
L3401 15μ
R3401 2700
R3423 68K
C3405 0.01
C3424 68P
R3425 18K
C3425 6V47
C3402 8P
R3402 18K
C3404 0.01
R3426 390
C3426 0.01
R3427 47K
C3403 0.01
R3404 47K
R3403 360
47K
47K
R3307 10K
R3446 1K
C3445 0.1
R3465 1200
10K
10K
L3412 33μ
C3451 0.1
C3450 0.1
C3452 0.01
R3468 8200
R3467 1800
C3447 120P
C3448 150P
R3469 8200
L3415 12μ
C3449 18P
22K
22K
R3466 1K
C3443 0.1
C3444 6V47
R3463 2200
C3474 0.1
L3304 33μ
11
12
13
14
15
16

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE
WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE

MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN P



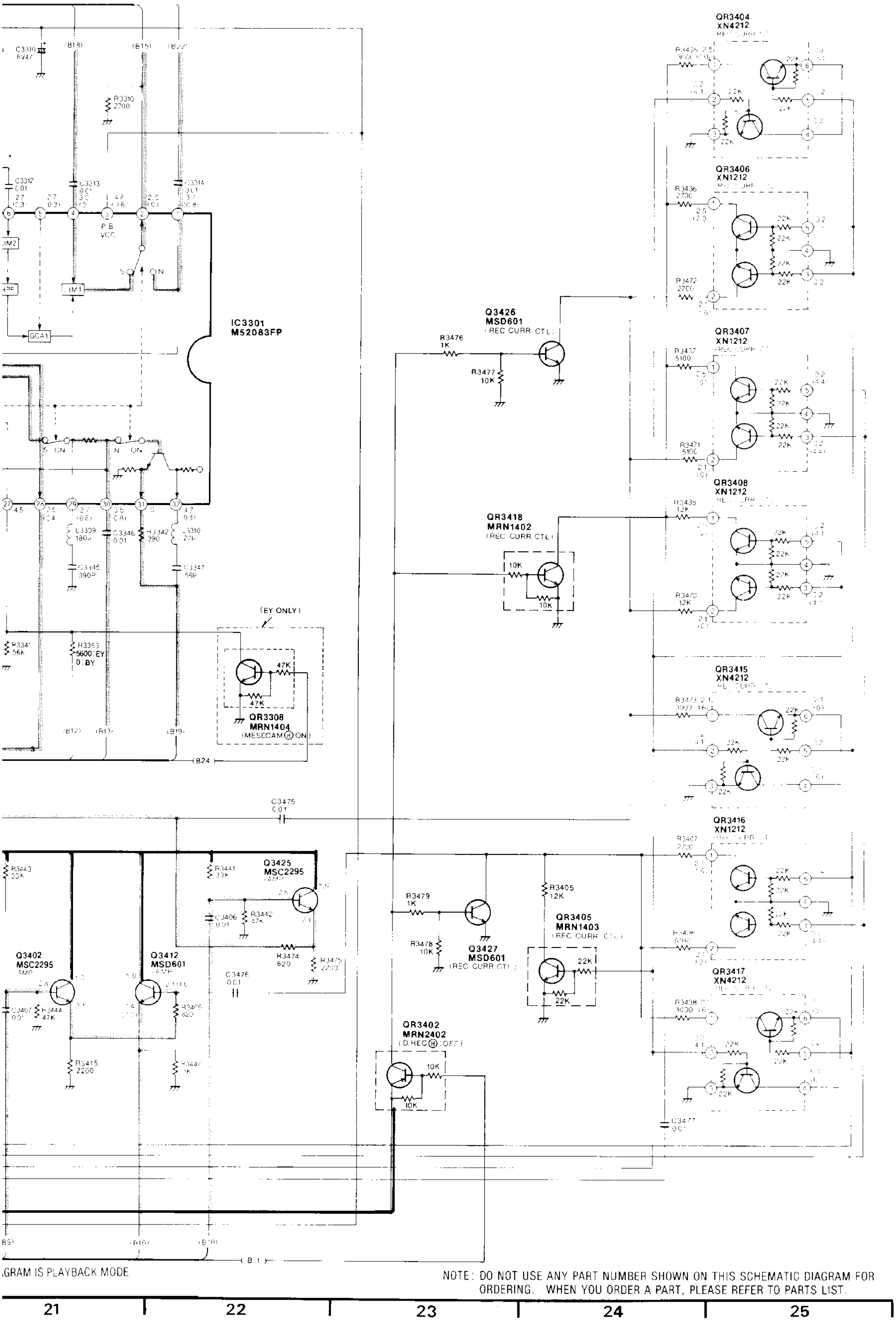
Q3301
MSC2295
BUFFER
Q3302
MSC2295
BUFFER
QR3306
DTC363EK
Q3304
MSD601
BUFFER
Q3305
MSD601
VHS CASSETTE ON
QR3302
DTC363EK
QR3301
DTC363EK
VHS CASSETTE ON
QR3305
UN211D
QR3304
DTC363EK
QR3303
DTC363EK
VHS CASSETTE ON
Q3402
MSC2295
AMP
Q3412
MSD601
AMP
IC33
M52
D3304
MA151K
D3301
1SS254
DC AMP
DELAY CTL
DL 1
DL 2
DL3
DL4
GCA2
GCA3
GCA1
GCA4
LIM2
LIM1
HPF
6dB
DET
LOG
PEAKING
PEAK
S-VHS
GND
PB
VCC
LP
SP
ON
R3322 470
C3321 0.1
R3325 1K
R3301 47K
R3302 15K
VR3301 20KB
VR3302 50KB
R3304 4700
R3305 5600
R3306 4700
R3308 2700
R3310 2700
C3309 0.1
C3310 6V47
L3301 15μ
C3323 0.01
C3301 10P
C3302 82P
R3503 1K
L3305 39P
C3322 18P
R3324 1500
R3323 560
R3326 1K
C3324 15P
L3307 12μ
C3325 0.01
C3326 15P
R3327 820
R3328 1K
6800
C3338 0.01
R3333 10K
R3335 1K
C3336 0.01
C3329 6V47
L3313 680μ
R3339 47K
C3341 0.01
C3342 68P
C3340 100P
R3334 6800
R3337 680
R3336 680
C3339 33P
R3338 1K
C3327 0.01
C3328 0.01
C3330 0.1
C3372 50V3.3
C3343 0.01
C3344 56P
L3308 33μ
L3323 33μ
L3309 180μ
C3345 390P
C3346 0.01
R3342 390
L3310 27μ
C3347 56P
R3340 10K
R3341 56K
R3353 5600:EY 0:BY
R3346 820
C3353 18P
L3315 5.6μ
C3351 180P
C3352 180P
R3345 820
C3354 22P
L3316 5.6μ
R3347 470:BY 820:EY
R3352 10K
47K
10K
R3443 33K
C3407 0.01
R3444 47K
R3415 2200
R3441 33K
C3406 0.01
R3409 820
R3447 1K
C3476 0.01
R3523 1200
L3504 39P
R3521 1200
R3526 47
C3519 220P
233BMA
B4
B7
B14
B17
B8
B12
B13
B19
B24
B23
B18
B15
B22
B21
B9
B10

VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE
SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE
WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

17 18 19 20 21 22

AIN SIGNAL PATH IN PLAYBACK MODE

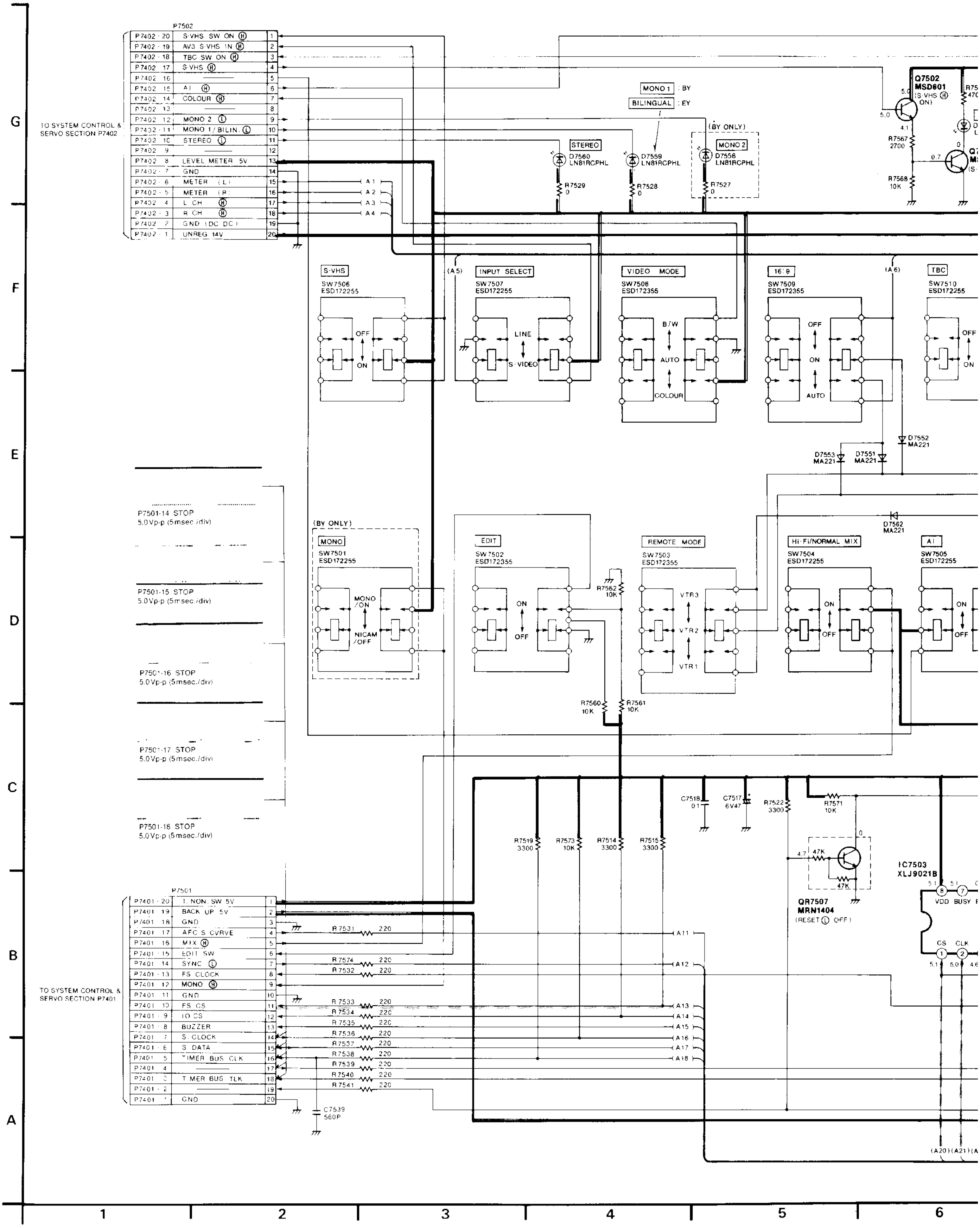


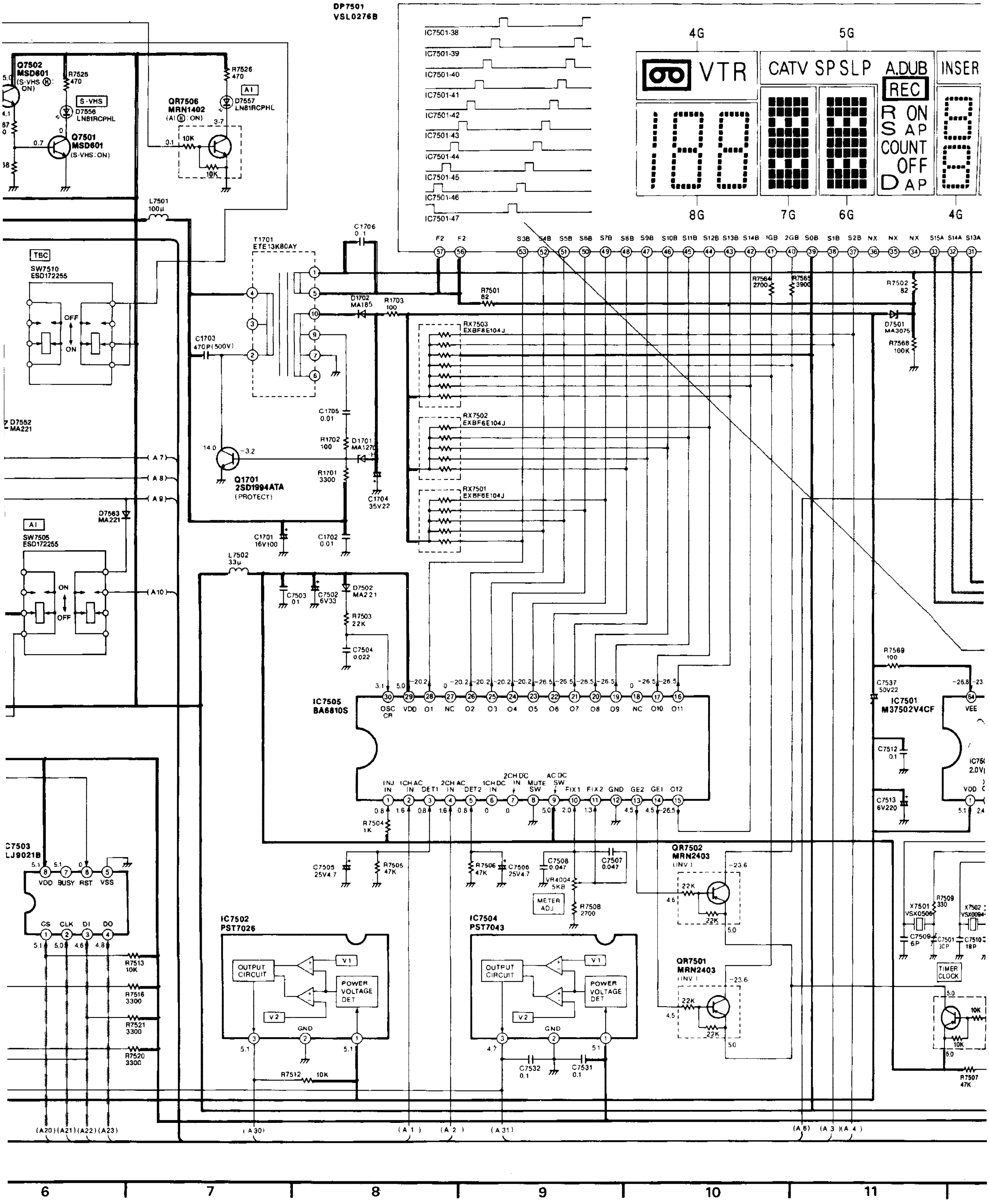
QR3404
XN4212
QR3406
XN1212
QR3407
XN1212
QR3408
XN1212
QR3415
XN4212
QR3416
XN1212
QR3417
XN4212
Q3426
MSD601
(REC CURR CTL)
R3476
1K
R3477
10K
QR3418
MRN1402
(REC CURR CTL)
10K
IC3301
M52083FP
C3310
6V47
(B18)
(B15)
(B22)
R3310
2700
C3312
0.01
C3313
C3314
P.B
VCC
LIM2
LIM1
GCA1
S
ON
N
C3346
0.01
L3309
180μ
C3345
390P
R3342
390
L3310
27μ
C3347
56P
(EY ONLY)
47K
QR3308
MRN1404
(MESECAM Ⓗ ON)
R3341
56K
R3353
5600 EY
0 BY
(B12)
(B13)
(B19)
(B24)
C3475
0.01
R3443
33K
R3441
33K
Q3425
MSC2295
(AMP)
C3406
0.01
R3442
47K
R3474
820
R3475
2200
C3476
0.01
Q3402
MSC2295
(AMP)
Q3412
MSD601
(AMP)
R3444
47K
R3409
820
R3415
2200
R3447
1K
R3479
1K
R3478
10K
Q3427
MSD601
(REC CURR CTL)
R3405
12K
QR3405
MRN1403
(REC CURR CTL)
22K
QR3402
MRN2402
(D.REC Ⓗ OFF)
10K
C3477
0.01
(B9)
(B16)
(B10)
(B1)
21
22
23
24
25

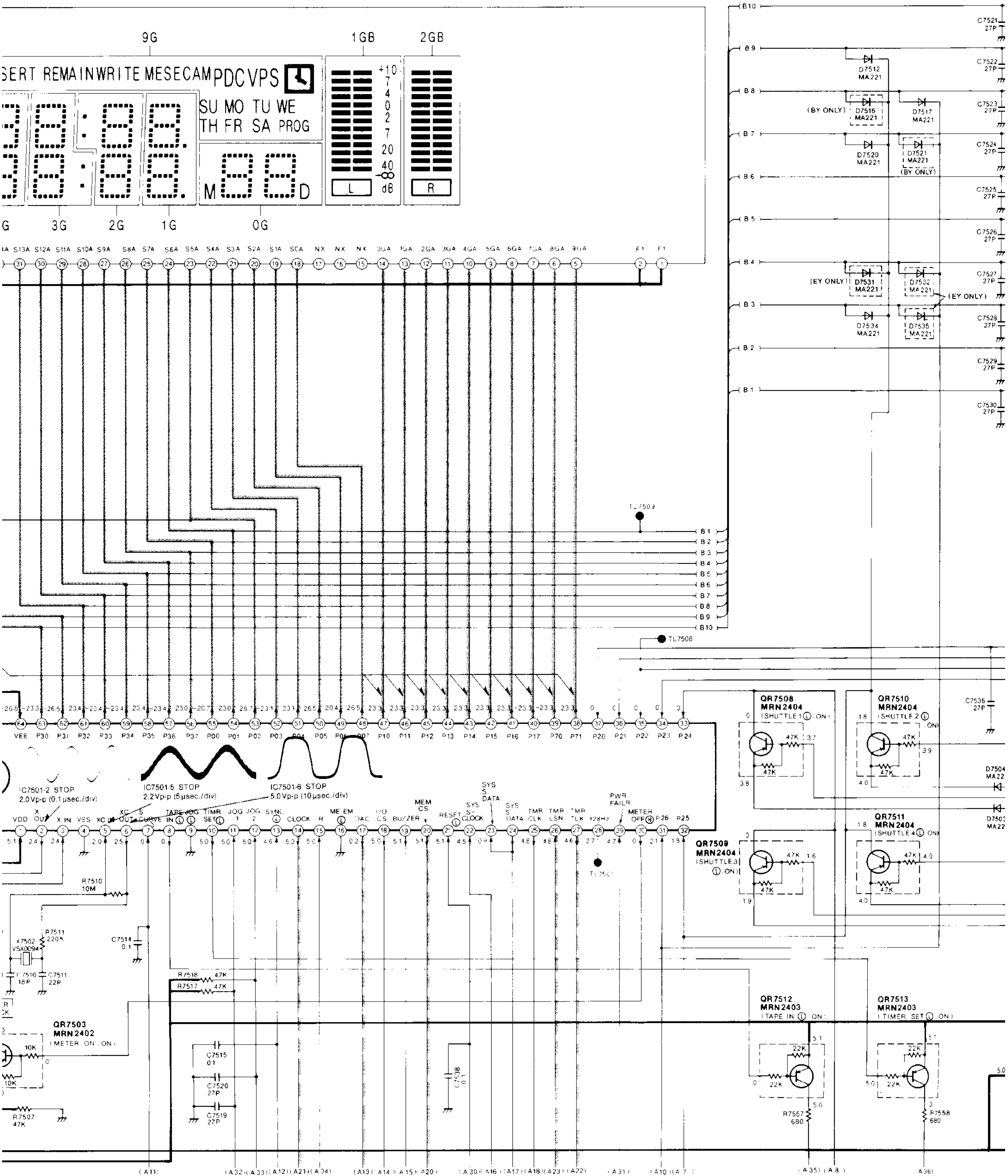
GRAM IS PLAYBACK MODE

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

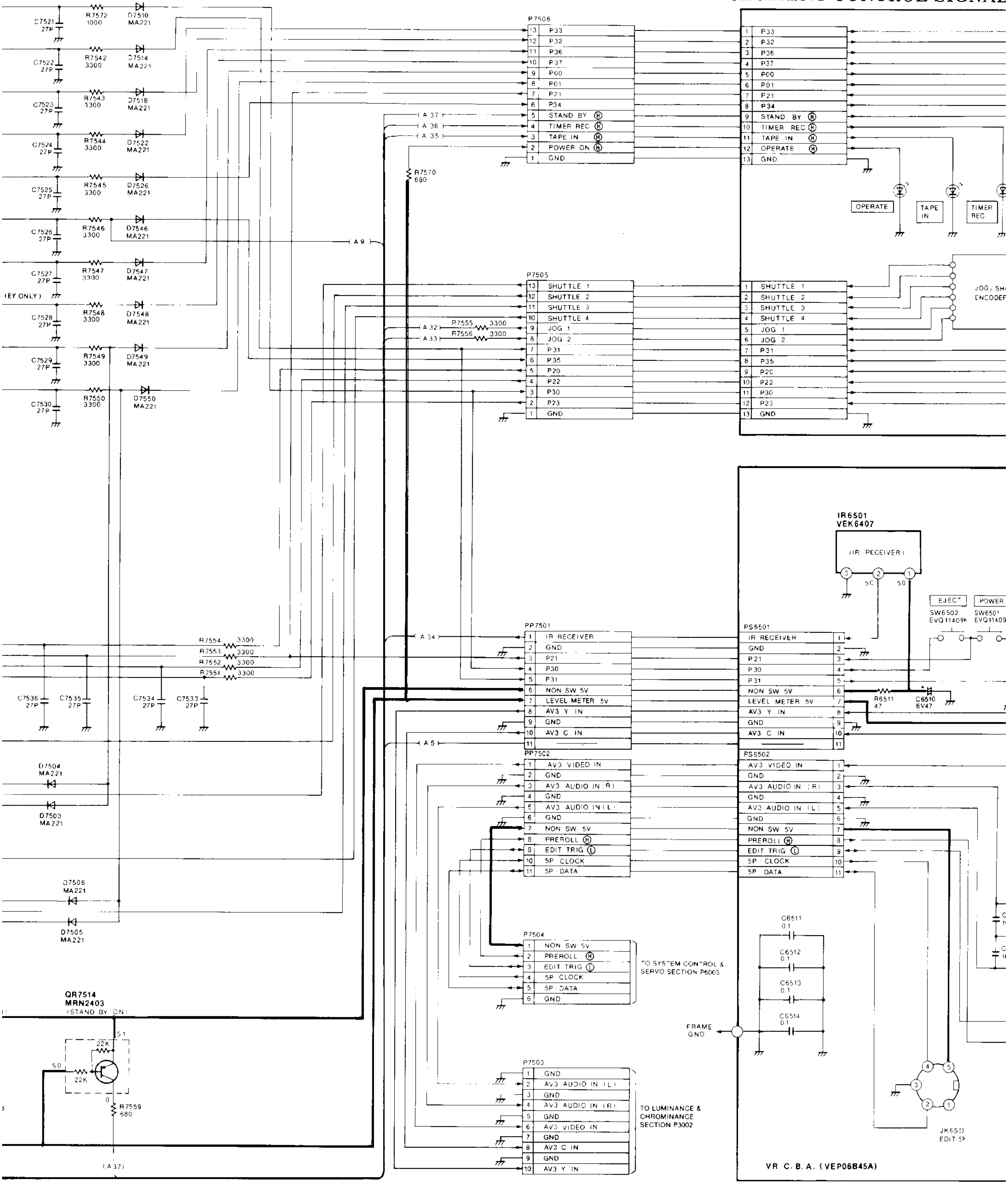
11. TIMER & VR SCHEMATIC DIAGRAM


P7502
P7402 - 20 S-VHS SW ON Ⓗ
P7402 - 19 AV3 S-VHS IN Ⓗ
P7402 - 18 TBC SW ON Ⓗ
P7402 - 17 S-VHS Ⓗ
P7402 - 16
P7402 - 15 AI Ⓗ
P7402 - 14 COLOUR Ⓗ
P7402 - 13
P7402 - 12 MONO 2 Ⓛ
P7402 - 11 MONO 1 / BILIN. Ⓛ
P7402 - 10 STEREO Ⓛ
P7402 - 9
P7402 - 8 LEVEL METER 5V
P7402 - 7 GND
P7402 - 6 METER (L)
P7402 - 5 METER (R)
P7402 - 4 L CH Ⓗ
P7402 - 3 R CH Ⓗ
P7402 - 2 GND (DC DC)
P7402 - 1 UNREG 14V
TO SYSTEM CONTROL & SERVO SECTION P7402
A1
A2
A3
A4
MONO 1 : BY
BILINGUAL : EY
(BY ONLY)
STEREO
D7560 LN81RCPHL
MONO 2
D7559 LN81RCPHL
D7556 LN81RCPHL
R7529 0
R7528 0
R7527 0
Q7502 MSD601
(S-VHS Ⓗ ON)
5.0
4.1
0.7
R7567 2700
R7568 10K
S-VHS
SW7506 ESD172255
OFF
ON
(A5)
INPUT SELECT
SW7507 ESD172255
LINE
S-VIDEO
VIDEO MODE
SW7508 ESD172355
B/W
AUTO
COLOUR
16:9
SW7509 ESD172355
OFF
ON
AUTO
(A6)
TBC
SW7510 ESD172255
OFF
ON
D7552 MA221
D7553 MA221
D7551 MA221
D7562 MA221
P7501-14 STOP 5.0Vp-p (5msec./div)
P7501-15 STOP 5.0Vp-p (5msec./div)
P7501-16 STOP 5.0Vp-p (5msec./div)
P7501-17 STOP 5.0Vp-p (5msec./div)
P7501-18 STOP 5.0Vp-p (5msec./div)
(BY ONLY)
MONO
SW7501 ESD172255
MONO /ON
NICAM /OFF
EDIT
SW7502 ESD172355
ON
OFF
R7562 10K
REMOTE MODE
SW7503 ESD172355
VTR3
VTR2
VTR1
Hi-Fi/NORMAL MIX
SW7504 ESD172255
ON
OFF
AI
SW7505 ESD172255
ON
OFF
R7560 10K
R7561 10K
C7518 0.1
C7517 6V47
R7522 3300
R7571 10K
R7519 3300
R7573 10K
R7514 3300
R7515 3300
4.7
47K
47K
QR7507 MRN1404
(RESET Ⓛ OFF)
IC7503 XLJ9021B
VDD BUSY
CS CLK
5.1
5.0
4.6
P7501
P7401 - 20 TIMER ON SW 5V
P7401 - 19 BACK UP 5V
P7401 - 18 GND
P7401 - 17 AFC S CVRVE
P7401 - 16 MIX Ⓗ
P7401 - 15 EDIT SW
P7401 - 14 SYNC Ⓛ
P7401 - 13 FS CLOCK
P7401 - 12 MONO Ⓗ
P7401 - 11 GND
P7401 - 10 FS CS
P7401 - 9 IO CS
P7401 - 8 BUZZER
P7401 - 7 S CLOCK
P7401 - 6 S DATA
P7401 - 5 TIMER BUS CLK
P7401 - 4
P7401 - 3 TIMER BUS TLK
P7401 - 2
P7401 - 1 GND
TO SYSTEM CONTROL & SERVO SECTION P7401
R7531 220
R7574 220
R7532 220
R7533 220
R7534 220
R7535 220
R7536 220
R7537 220
R7538 220
R7539 220
R7540 220
R7541 220
A11
A12
A13
A14
A15
A16
A17
A18
C7539 560P
(A20)
(A21)
G
F
E
D
C
B
A
1
2
3
4
5
6


DP7501
VSL0276B
IC7501-38
IC7501-39
IC7501-40
IC7501-41
IC7501-42
IC7501-43
IC7501-44
IC7501-45
IC7501-46
IC7501-47
4G
5G
VTR
CATV SP SLP
A.DUB
INSER
REC
R ON
S AP
COUNT
OFF
D AP
8G
7G
6G
4G
F2
F2
S3B S4B S5B S6B S7B S8B S9B S10B S11B S12B S13B S14B 1GB 2GB S0B S1B S2B NX NX NX S15A S14A S13A
Q7502
MSD601
(S-VHS Ⓗ: ON)
R7525
470
S-VHS
D7556
LN81RCPHL
Q7501
MSD601
(S-VHS: ON)
R7526
470
AI
D7557
LN81RCPHL
QR7506
MRN1402
(AI Ⓗ: ON)
10K
10K
L7501
100μ
TBC
SW7510
ESD172255
OFF
ON
T1701
ETE13K80AY
C1706
0.1
D1702
MA185
R1703
100
R7501
82
R7564
2700
R7565
3900
R7502
82
D7501
MA3075
R7566
100K
RX7503
EXBF8E104J
RX7502
EXBF6E104J
RX7501
EXBF6E104J
C1703
470P(500V)
C1705
0.01
R1702
100
D1701
MA1270
R1701
3300
C1704
35V22
Q1701
2SD1994ATA
(PROTECT)
D7552
MA221
(A7)
(A8)
(A9)
(A10)
D7563
MA221
AI
SW7505
ESD172255
ON
OFF
C1701
16V100
C1702
0.01
L7502
33μ
C7503
0.1
C7502
6V33
D7502
MA221
R7503
22K
C7504
0.022
IC7505
BA6810S
OSC CR
VDD
O1
NC
O2
O3
O4
O5
O6
O7
O8
O9
NC
O10
O11
INJ IN
1CH AC IN
DET1
2CH AC IN
DET2
1CH DC IN
2CH DC IN
MUTE SW
AC DC SW
FIX1
FIX2
GND
GE2
GE1
O12
R7504
1K
C7505
25V4.7
R7505
47K
R7506
47K
C7506
25V4.7
C7508
0.047
C7507
0.047
VR4004
5KB
METER ADJ
R7508
2700
R7569
100
C7537
50V22
IC7501
M37502V4CF
VEE
C7512
0.1
C7513
6V220
VDD
QR7502
MRN2403
(INV)
22K
22K
QR7501
MRN2403
(INV)
IC7503
LJ9021B
VDD
BUSY
RST
VSS
CS
CLK
DI
DO
R7513
10K
R7516
3300
R7521
3300
R7520
3300
IC7502
PST7026
OUTPUT CIRCUIT
V1
V2
POWER VOLTAGE DET
GND
R7512
10K
IC7504
PST7043
C7532
0.1
C7531
0.1
X7501
VSX0506
R7509
330
X7502
VSX0094
C7509
6P
C7501
30P
C7510
18P
TIMER CLOCK
10K
10K
R7507
47K
(A20) (A21) (A22) (A23)
(A30)
(A1)
(A2)
(A31)
(A6)
(A3) (A4)
6
7
8
9
10
11


9G
1GB
2GB
SERT REMAINWRITE MESECAM PDC VPS
SU MO TU WE
TH FR SA PROG
+10 7 4 0 2 7 20 40 dB
L
R
M D
G 3G 2G 1G 0G
S13A S12A S11A S10A S9A S8A S7A S6A S5A S4A S3A S2A S1A SCA NX NX NX 0GA 1GA 2GA 3GA 4GA 5GA 6GA 7GA 8GA 9GA F1 F1
B10 B9 B8 B7 B6 B5 B4 B3 B2 B1
D7512 MA221
D7516 MA221
D7517 MA221
(BY ONLY)
D7520 MA221
D7521 MA221
D7531 MA221
D7532 MA221
(EY ONLY)
D7534 MA221
D7535 MA221
C7521 27P
C7522 27P
C7523 27P
C7524 27P
C7525 27P
C7526 27P
C7527 27P
C7528 27P
C7529 27P
C7530 27P
TL7509
TL7508
VEE P30 P31 P32 P33 P34 P35 P36 P37 P00 P01 P02 P03 P04 P05 P06 P07 P10 P11 P12 P13 P14 P15 P16 P17 P70 P71 P20 P21 P22 P23 P24
IC7501-2 STOP 2.0Vp-p (0.1µsec./div)
IC7501-5 STOP 2.2Vp-p (5µsec./div)
IC7501-6 STOP 5.0Vp-p (10µsec./div)
VDD X OUT X IN VSS XC IN XC OUT S CURVE TAPE IN JOG TIMR SET JOG 1 JOG 2 SYNC CLOCK R ME EM DAC I/O CS BUZZER MEM CS RESET SYS S CLOCK SYS S DATA SYS S DATA TMR CLK TMR LSN TMR CLK 128Hz PWR FAIL METER OFF P26 P25
QR7508 MRN2404 (SHUTTLE 1 ON)
QR7510 MRN2404 (SHUTTLE 2 ON)
QR7509 MRN2404 (SHUTTLE 3 ON)
QR7511 MRN2404 (SHUTTLE 4 ON)
QR7512 MRN2403 (TAPE IN ON)
QR7513 MRN2403 (TIMER SET ON)
QR7503 MRN2402 (METER ON ON)
C7536 27P
D7504 MA22
D7503 MA22
R7510 10M
R7511 220K
X7502 VSX0094
C7510 18P
C7511 22P
C7514 0.1
R7518 47K
R7517 47K
C7515 0.1
C7520 27P
C7519 27P
C7538 0.1
R7507 47K
R7557 680
R7558 680
TL7500
A11 A32 A33 A12 A21 A34 A13 A14 A15 A20 A30 A16 A17 A18 A23 A22 A31 A10 A7 A35 A8 A36
12
13
14
15
16
17

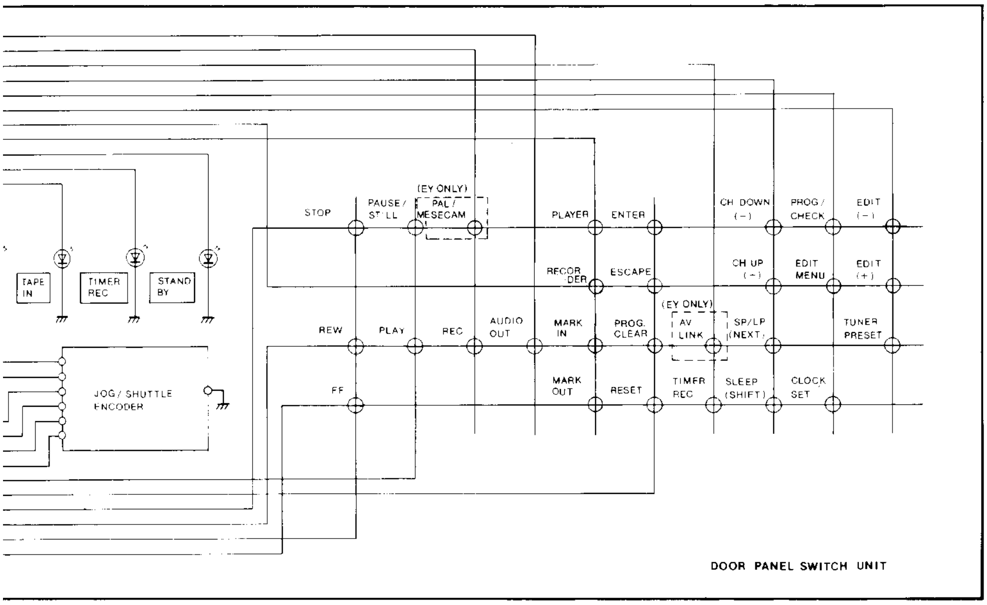
SEGMENT CONTROL SIGNAL

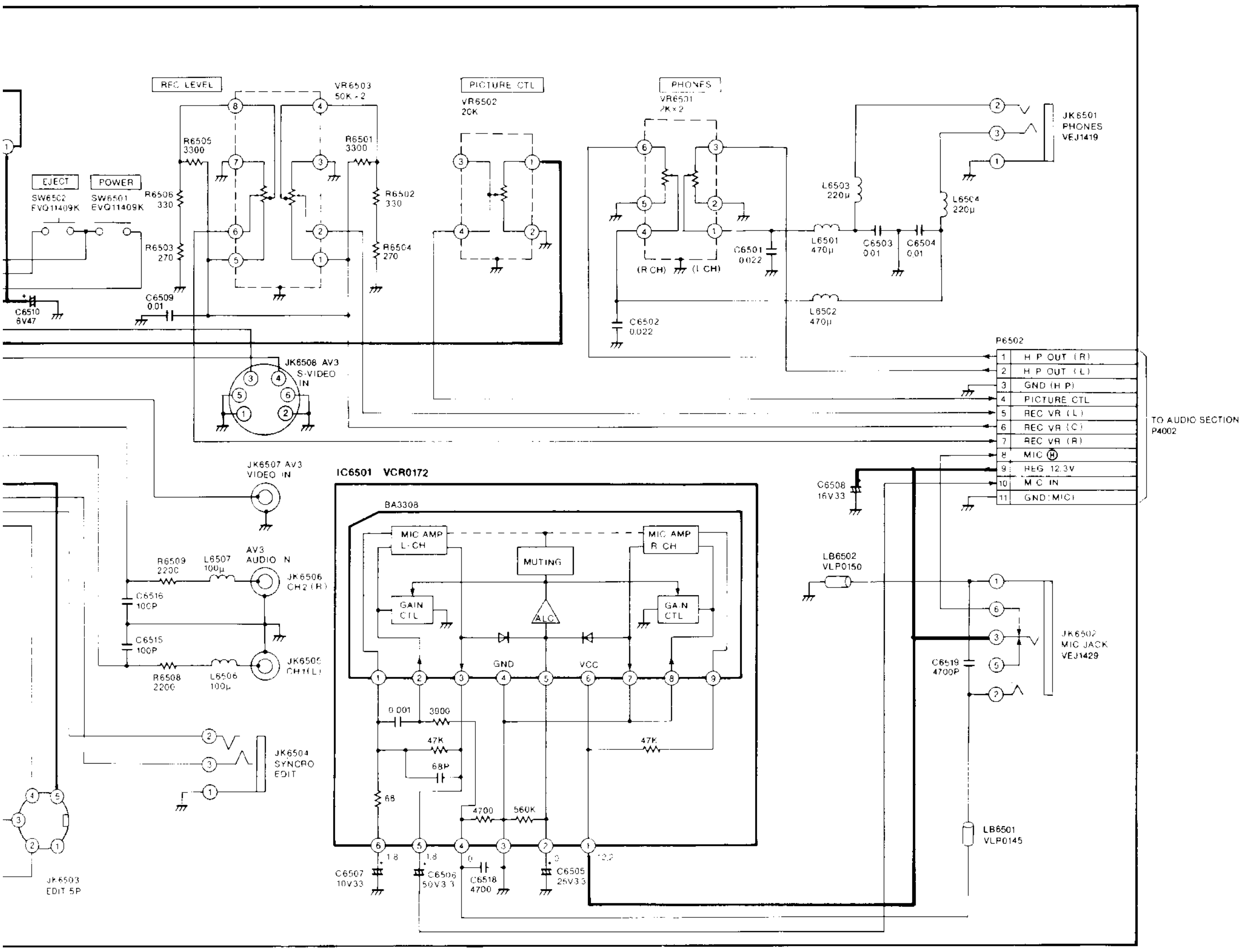

C7521 27P
R7572 1000
D7510 MA221
C7522 27P
R7542 3300
D7514 MA221
C7523 27P
R7543 3300
D7518 MA221
C7524 27P
R7544 3300
D7522 MA221
C7525 27P
R7545 3300
D7526 MA221
C7526 27P
R7546 3300
D7546 MA221
C7527 27P
R7547 3300
D7547 MA221
(EY ONLY)
C7528 27P
R7548 3300
D7548 MA221
C7529 27P
R7549 3300
D7549 MA221
C7530 27P
R7550 3300
D7550 MA221
P7506
13 P33
12 P32
11 P36
10 P37
9 P00
8 P01
7 P21
6 P34
5 STANDBY Ⓗ
4 TIMER REC Ⓗ
3 TAPE IN Ⓗ
2 POWER ON Ⓗ
1 GND
(A 37)
(A 36)
(A 35)
R7570 680
(A 9)
1 P33
2 P32
3 P36
4 P37
5 P00
6 P01
7 P21
8 P34
9 STAND BY Ⓗ
10 TIMER REC Ⓗ
11 TAPE IN Ⓗ
12 OPERATE Ⓗ
13 GND
OPERATE
TAPE IN
TIMER REC
P7505
13 SHUTTLE 1
12 SHUTTLE 2
11 SHUTTLE 3
10 SHUTTLE 4
9 JOG 1
8 JOG 2
7 P31
6 P35
5 P20
4 P22
3 P30
2 P23
1 GND
(A 32)
(A 33)
R7555 3300
R7556 3300
1 SHUTTLE 1
2 SHUTTLE 2
3 SHUTTLE 3
4 SHUTTLE 4
5 JOG 1
6 JOG 2
7 P31
8 P35
9 P20
10 P22
11 P30
12 P23
13 GND
JOG/SH
ENCODER
IR6501
VEK6407
(IR RECEIVER)
3 2 1
5.0
5.0
EJECT
POWER
SW6502 EVQ11409K
SW6501 EVQ11409
R7554 3300
R7553 3300
R7552 3300
R7551 3300
C7536 27P
C7535 27P
C7534 27P
C7533 27P
(A 34)
PP7501
1 IR RECEIVER
2 GND
3 P21
4 P30
5 P31
6 NON SW 5V
7 LEVEL METER 5V
8 AV3 Y IN
9 GND
10 AV3 C IN
11
(A 5)
PS6501
IR RECEIVER 1
GND 2
P21 3
P30 4
P31 5
NON SW 5V 6
LEVEL METER 5V 7
AV3 Y IN 8
GND 9
AV3 C IN 10
11
R6511 47
C6510 6V47
PP7502
1 AV3 VIDEO IN
2 GND
3 AV3 AUDIO IN (R)
4 GND
5 AV3 AUDIO IN (L)
6 GND
7 NON SW 5V
8 PREROLL Ⓗ
9 EDIT TRIG Ⓛ
10 5P CLOCK
11 5P DATA
PS6502
AV3 VIDEO IN 1
GND 2
AV3 AUDIO IN (R) 3
GND 4
AV3 AUDIO IN (L) 5
GND 6
NON SW 5V 7
PREROLL Ⓗ 8
EDIT TRIG Ⓛ 9
5P CLOCK 10
5P DATA 11
D7504 MA221
D7503 MA221
D7506 MA221
D7505 MA221
P7504
1 NON SW 5V
2 PREROLL Ⓗ
3 EDIT TRIG Ⓛ
4 5P CLOCK
5 5P DATA
6 GND
TO SYSTEM CONTROL & SERVO SECTION P6003
C6511 0.1
C6512 0.1
C6513 0.1
C6514 0.1
FRAME GND
QR7514
MRN2403
(STAND BY ON)
5.1
22K
5.0
22K
0
R7559 680
(A 37)
P7503
1 GND
2 AV3 AUDIO IN (L)
3 GND
4 AV3 AUDIO IN (R)
5 GND
6 AV3 VIDEO IN
7 GND
8 AV3 C IN
9 GND
10 AV3 Y IN
TO LUMINANCE & CHROMINANCE SECTION P3002
4 5 3 2 1
JK6503
EDIT 5P
VR C.B.A. (VEP06B45A)

NOTE THE MEASUREMENT MODE OF THE DC VOLTAGE ON TH

18 19 20 21 22

OL SIGNAL GRID CONTROL SIGNAL TUNE CONTROL SIGNAL


STOP
PAUSE / STILL
(EY ONLY)
PAL / MESECAM
PLAYER
ENTER
CH DOWN (−)
PROG / CHECK
EDIT (−)
RECORDER
ESCAPE
CH UP (+)
EDIT MENU
EDIT (+)
TAPE IN
TIMER REC
STAND BY
REW
PLAY
REC
AUDIO OUT
MARK IN
PROG. CLEAR
(EY ONLY)
AV LINK
SP/LP (NEXT)
TUNER PRESET
JOG / SHUTTLE ENCODER
FF
MARK OUT
RESET
TIMER REC
SLEEP (SHIFT)
CLOCK SET
DOOR PANEL SWITCH UNIT

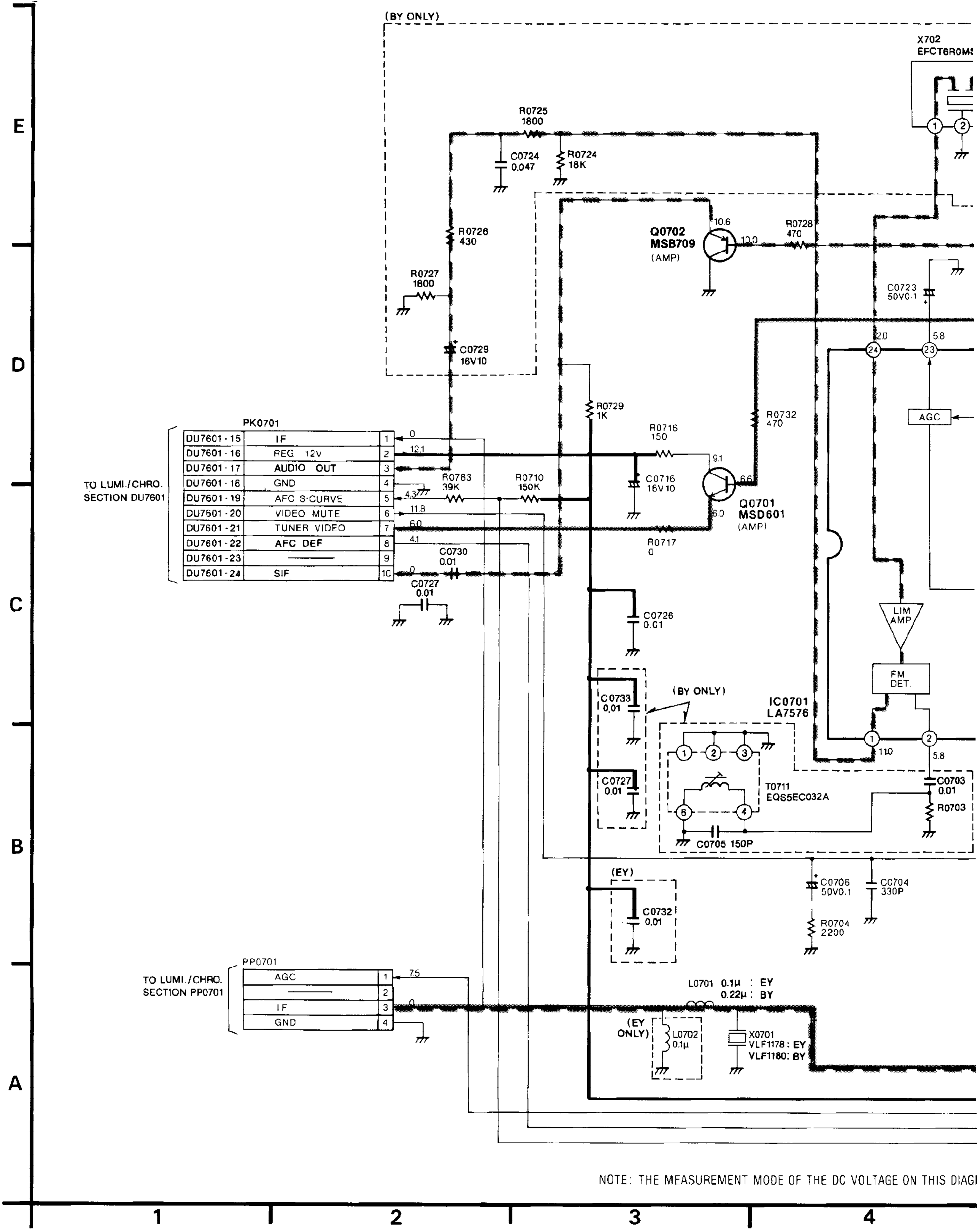

REC LEVEL
VR6503 50K×2
R6505 3300
R6501 3300
R6502 330
R6504 270
R6506 330
R6503 270
EJECT
POWER
SW6502 FVQ11409K
SW6501 EVQ11409K
C6510 6V47
C6509 0.01
PICTURE CTL
VR6502 20K
PHONES
VR6501 2K×2
(R CH)
(L CH)
C6501 0.022
C6502 0.022
L6501 470μ
L6502 470μ
L6503 220μ
L6504 220μ
C6503 0.01
C6504 0.01
JK6501 PHONES VEJ1419
JK6508 AV3 S-VIDEO IN
JK6507 AV3 VIDEO IN
R6509 220Ω
L6507 100μ
AV3 AUDIO IN
JK6506 CH2 (R)
C6516 100P
C6515 100P
R6508 220Ω
L6506 100μ
JK6505 CH1 (L)
JK6504 SYNCRO EDIT
JK6503 EDIT 5P
IC6501 VCR0172
BA3308
MIC AMP L-CH
MIC AMP R CH
MUTING
GAIN CTL
ALC
GND
VCC
0.001
3900
47K
68P
68
4700
560K
C6507 10V33
C6506 50V3.3
C6518 4700
C6505 25V3.3
1.8
1.8
0
12.2
P6502
1 H P OUT (R)
2 H P OUT (L)
3 GND (H P)
4 PICTURE CTL
5 REC VR (L)
6 REC VR (C)
7 REC VR (R)
8 MIC Ⓗ
9 REG 12.3V
10 MIC IN
11 GND (MIC)
TO AUDIO SECTION P4002
C6508 16V33
LB6502 VLP0150
JK6502 MIC JACK VEJ1429
C6519 4700P
LB6501 VLP0145

THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE. (S-VHS: SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

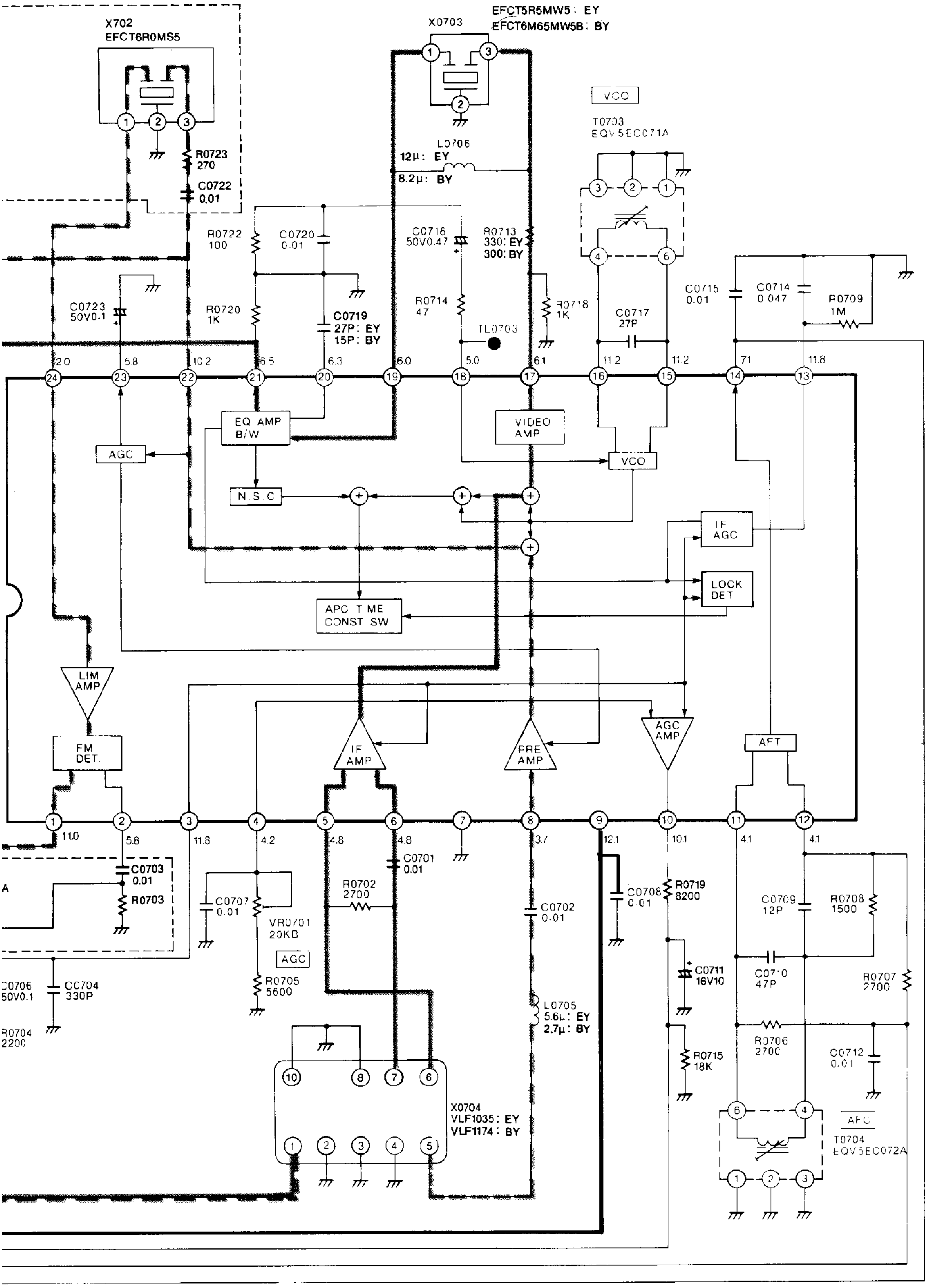
23 24 25 26 27 28

13. TV DEMODULATOR SCHEMATIC DIAGRAM


(BY ONLY)
X702
EFCT6R0M
R0725
1800
C0724
0.047
R0724
18K
R0726
430
R0727
1800
C0729
16V10
Q0702
MSB709
(AMP)
10.6
10.0
R0728
470
C0723
50V0.1
20
58
24
23
AGC
PK0701
DU7601-15 | IF | 1
DU7601-16 | REG 12V | 2
DU7601-17 | AUDIO OUT | 3
DU7601-18 | GND | 4
DU7601-19 | AFC S-CURVE | 5
DU7601-20 | VIDEO MUTE | 6
DU7601-21 | TUNER VIDEO | 7
DU7601-22 | AFC DEF | 8
DU7601-23 | 9
DU7601-24 | SIF | 10
TO LUMI./CHRO. SECTION DU7601
0
12.1
4.3
11.8
6.0
4.1
0
R0729
1K
R0732
470
R0716
150
9.1
6.6
6.0
C0716
16V10
R0783
39K
R0710
150K
Q0701
MSD601
(AMP)
R0717
0
C0730
0.01
C0727
0.01
C0726
0.01
LIM AMP
FM DET.
C0733
0.01
(BY ONLY)
IC0701
LA7576
1
2
3
6
4
T0711
EQS5EC032A
C0705 150P
1
2
11.0
5.8
C0703
0.01
R0703
C0727
0.01
(EY)
C0732
0.01
C0706
50V0.1
C0704
330P
R0704
2200
PP0701
AGC | 1
2
IF | 3
GND | 4
TO LUMI./CHRO. SECTION PP0701
75
0
L0701 0.1µ : EY
0.22µ : BY
(EY ONLY)
L0702
0.1µ
X0701
VLF1178 : EY
VLF1180 : BY
E
D
C
B
A
1
2
3
4

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGI

VIDEO SIGNAL PATH AUDIO SIGNAL PATH



X702
EFCT6R0MS5
R0723
270
C0722
0.01
X0703
EFCT5R5MW5 : EY
EFCT6M65MW5B : BY
L0706
12µ : EY
8.2µ : BY
VCO
T0703
EQV5EC071A
R0722
100
C0720
0.01
C0716
50V0.47
R0713
330 : EY
300 : BY
C0723
50V0.1
R0720
1K
C0719
27P : EY
15P : BY
R0714
47
TL0703
R0718
1K
C0717
27P
C0715
0.01
C0714
0.047
R0709
1M
12.0
5.8
10.2
6.5
6.3
6.0
5.0
6.1
11.2
11.2
7.1
11.8
EQ AMP
B/W
VIDEO
AMP
AGC
VCO
N S C
IF
AGC
LOCK
DET
APC TIME
CONST SW
LIM
AMP
FM
DET.
IF
AMP
PRE
AMP
AGC
AMP
AFT
11.0
5.8
11.8
4.2
4.8
4.8
3.7
12.1
10.1
4.1
4.1
C0703
0.01
R0703
A
C0701
0.01
R0702
2700
C0707
0.01
VR0701
20KB
AGC
C0702
0.01
C0708
0.01
R0719
8200
C0709
12P
R0708
1500
C0706
50V0.1
C0704
330P
R0704
2200
R0705
5600
C0711
16V10
C0710
47P
R0707
2700
L0705
5.6µ : EY
2.7µ : BY
R0715
18K
R0706
2700
C0712
0.01
AFC
T0704
EQV5EC072A
X0704
VLF1035 : EY
VLF1174 : BY

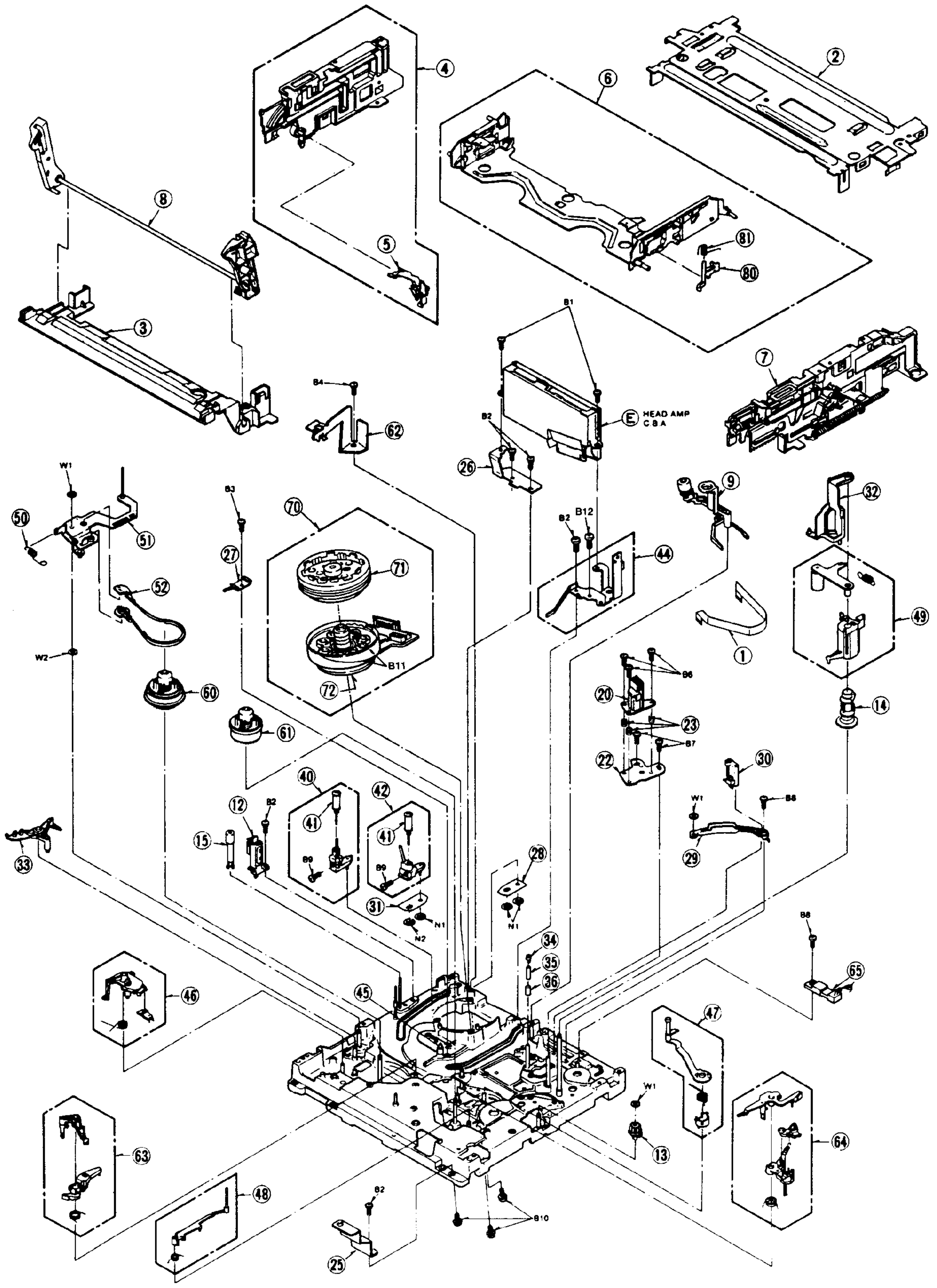
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

E DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

4 5 6 7

15. EXPLODED VIEW

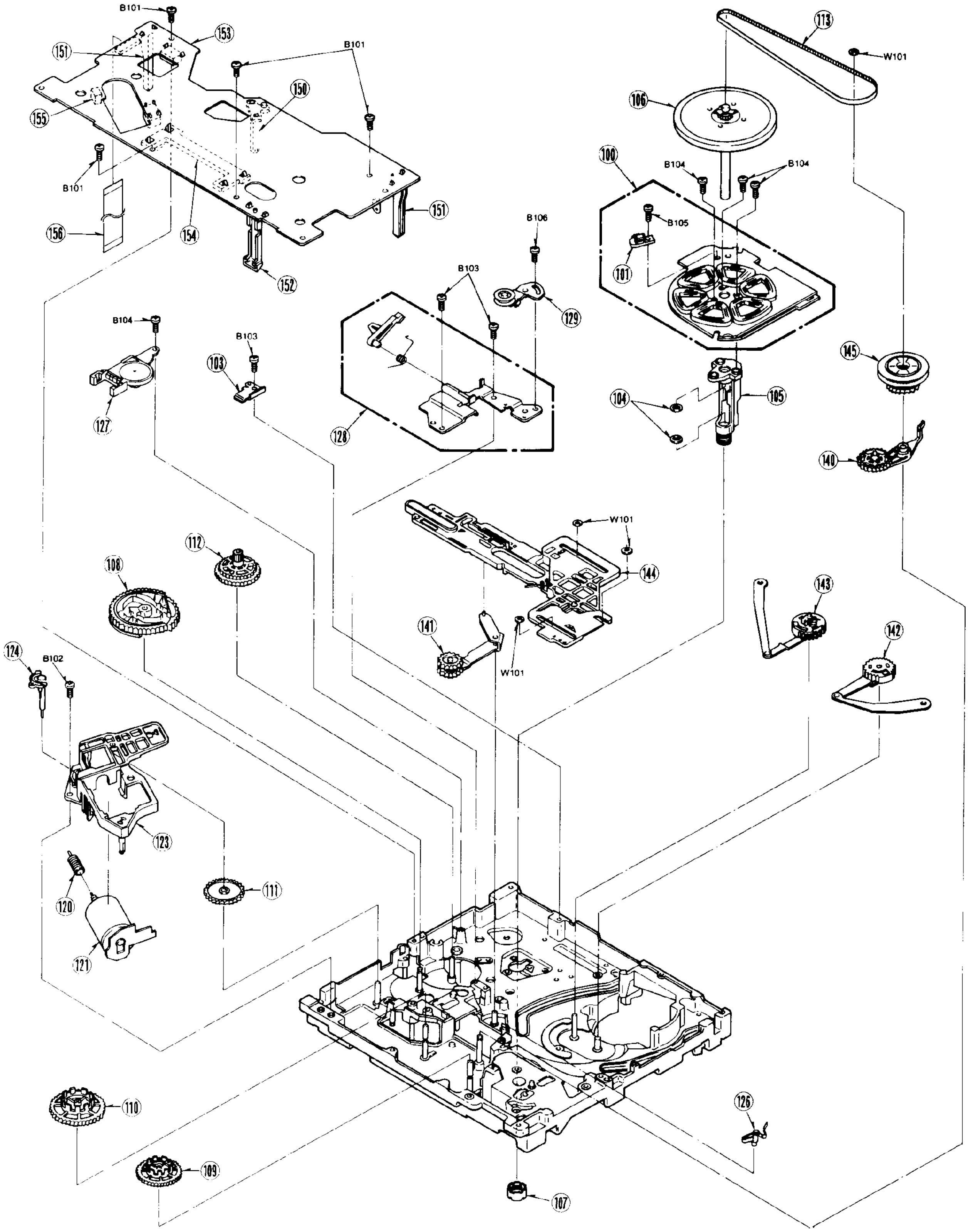
❶ CHASSIS PARTS SECTION (1)


④
②
⑥
⑧
⑤
(81)
(80)
③
B1
B4
(62)
Ⓔ HEAD AMP C B A
B2
⑦
㉖
⑨
㉜
W1
㊿
(51)
B3
(70)
B2
B12
㉗
(71)
㊹
(52)
①
㊾
W2
B11
B6
(60)
(72)
⑳
⑭
㉓
B7
(61)
㉒
㉚
㊵
㊷
W1
B8
⑫
B2
㊶
㊶
⑮
B9
B9
㉙
㉝
㉘
㉛
N1
N1
N2
B8
㉞
㉟
㊱
(65)
㊻
㊺
㊼
W1
(64)
⑬
(63)
㊽
B2
B10
㉕

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1(1)	VWJ0617	FLEXIBLE CABLE (6P)	1	P4003-P1501
2(1)	VMA8644	TOP PLATE	1	
3(1)	VMA8787	CASSETTE GUIDE	1	
4(1)	VXA4660	SIDE PLATE (L) UNIT	1	
5(1)	VML2902	OPENER LEVER UNIT	1	
6(1)	VXA4661	CASSETTE HOLDER PLATE UNIT	1	
7(1)	VXA4806	SIDE PLATE (R) UNIT	1	
8(1)	VXP1339	MAIN SHAFT UNIT	1	
9(1)	VXL2440	CLEANER ARM UNIT	1	
12(1)	VBS0052	FE HEAD	1	
13(1)	VDG0871	CARRIAGE CONNECTION GEAR	1	
14(1)	VDG0886	PINCH CAM GEAR	1	
15(1)	VXP1402	IMPEDANCE ROLLER UNIT	1	
20(1)	VED0217	A/C HEAD (1) UNIT	1	
22(1)	VMA8624	A/C HEAD BASE	1	
23(1)	VMB2515	A/C HEAD SPRING	3	
25(1)	VMA8761	MOUNT ANGLE	1	
26(1)	VMA9158	HEAD AMP MOUNT ANGLE (L)	1	
27(1)	VMC0917	EARTH SPRING	1	
28(1)	VMA8874	INCLIND BASE HOLDER (S)	1	
29(1)	VMD2078	P5 STOPPER BASE	1	
30(1)	VXA4927	P5 POST STOPPER	1	
31(1)	VMA8873	INCLIND BASE HOLDER (T)	1	
32(1)	VMD2101	OPENER PIECE	1	
33(1)	VML2776	TENSION SPRING ARM	1	
34(1)	VMX1544	P4 UPPER LIMITER	1	
35(1)	VMX2175	P4 SLEEVE	1	
36(1)	VMX2176	P4 LOWER LIMITER	1	
40(1)	VXA5245KIT	INCLINED BASE (S) UNIT	1	OR VXA4982KIT
41(1)	VXP1415	ROLLER POST	2	
42(1)	VXA5247KIT	INCLINED BASE (T) UNIT	1	OR VXA4984KIT
44(1)	VXA4974	HEAD AMP MOUNT ANGLE (R) U.	1	
45(1)	VMS5383	CASSETTE POSITION FIXTURE	1	
46(1)	VXL2310	REVIEW ARM UNIT	1	
47(1)	VXL2306	P5 ARM UNIT	1	
48(1)	VXL2394	TAKE UP TENSION REGULATOR	1	
		ARM UNIT		
49(1)	VXL2246	PINCH ARM UNIT	1	
50(1)	VMB2434	TENSION SPRING	1	
51(1)	VXL2309	TENSION ARM (1) UNIT	1	
52(1)	VXZ0310	TENSION BAND UNIT	1	
60(1)	VXR0236	SUPPLY REEL TABLE UNIT	1	
61(1)	VXR0237	TAKE UP REEL TABLE UNIT	1	
62(1)	VXS0241	EARTH PLATE	1	
63(1)	VXZ0312	SUPPLY BRAKE ARM UNIT	1	
64(1)	VXZ0313	TAKE UP BRAKE ARM UNIT	1	
65(1)	2SB1370YD01E	POWER TRANSISTOR	1	
70(1)	VEG1355	CYLINDER UNIT	1	
71(1)	VXP1561	UPPER CYLINDER UNIT	1	
72(1)	VSC4137	CYLINDER SHIELD PLATE	1	
80(1)	VML2680	RELEASE LEVER	1	
81(1)	VMB2013	RELEASE SPRING	1	
B1(1)	VHD0773	SCREW	2	
B2(1)	XTV26+6F	SCREW	6	
B3(1)	XTV26+4F	SCREW	1	
B4(1)	XTN3+6FFZ	SCREW	1	
B6(1)	VHD0762	SCREW	3	
B7(1)	XTV26+6FZ	SCREW	2	
B8(1)	XTV26+8F	SCREW	1	
B9(1)	XQN2+AJ4	SCREW	2	
B10(1)	VHD0342	SCREW	3	
B11(1)	XYNV0029	SCREW	2	
B12(1)	XTV26+10F	SCREW	1	
N1(1)	VHN0192	NUT	3	
N2(1)	VHN0193	NUT	1	
W1(1)	VMX2208	WASHER	3	
W2(1)	XWGV26D5G	WASHER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
100(2)	VEK5927	STATOR UNIT	1	
101(2)	VBK0061	FG HEAD	1	
103(2)	VMA8930	ROTOR STOPPER	1	
104(2)	VMX1927	OIL SEAL	2	
105(2)	VXD0140	HOUSING UNIT	1	
106(2)	VXP1519	ROTOR UNIT	1	
107(2)	VXQ0297	THRUST SCREW UNIT	1	
108(2)	VDG0913	MAIN CAM GEAR	1	
109(2)	VDG0956	SUPPLY REEL GEAR	1	
110(2)	VDG0957	TAKE UP REEL GEAR	1	
111(2)	VDG0868	WORM WHEEL GEAR	1	
112(2)	VDG0885	SUB CAM GEAR	1	
113(2)	VDV0235	TIMING BELT	1	
120(2)	VDG0866	WORM GEAR	1	
121(2)	VEM0427	LOADING MOTOR (1) UNIT	1	
123(2)	VMD1942	MOTOR BRACKET	1	
124(2)	VMD2153	S-VHS SW ACTUATER	1	
126(2)	VML2725	IDLER CONTROL LEVER	1	
127(2)	VSS0365	MODE SW	1	
128(2)	VXA5138	SS BRAKE BASE UNIT	1	
129(2)	VXA4799	TENSION ROLLER UNIT	1	
140(2)	VXL2378	IDLER ARM UNIT	1	
141(2)	VXL2372	DIRECT LEVER UNIT	1	
142(2)	VXL2299	SUPPLY LOADING ARM UNIT	1	
143(2)	VXL2300	TAKE UP LOADING ARM UNIT	1	
144(2)	VXL2307	MAIN LEVER UNIT	1	
145(2)	VXP1409	CENTRE CLUTCH	1	
150(2)	VMD1926	LED HOLDER	1	
151(2)	VMD1927	PHOTO TRANSISTOR HOLDER	2	
152(2)	VES0695	SAFETY TAB SW	1	
153(2)	VJB00T87	MECHANISM CONNECTION C.B.	1	ELECTRICAL PARTS ON
				THE C.B.A. ARE
				LISTED ON
				ELECTRICAL PARTS
				LIST.
154(2)	VMD2029	REEL SHAFT GUIDE	1	
155(2)	VST0176	S-VHS CASSETTE SW	1	
156(2)	VWJ0777	FLEXIBLE CABLE (14P)	1	(P6001-P1505)
B101(2)	VHD0772	SCREW	4	
B102(2)	XTV26+8F	SCREW	1	
B103(2)	XTV26+6F	SCREW	3	
B104(2)	VHD0753	SCREW	4	
B105(2)	VHD0754	SCREW	1	
B106(2)	XSB26+4FZ	SCREW	1	
W101(2)	VMX2208	WASHER	4	

❷ Chassis Parts Section (2)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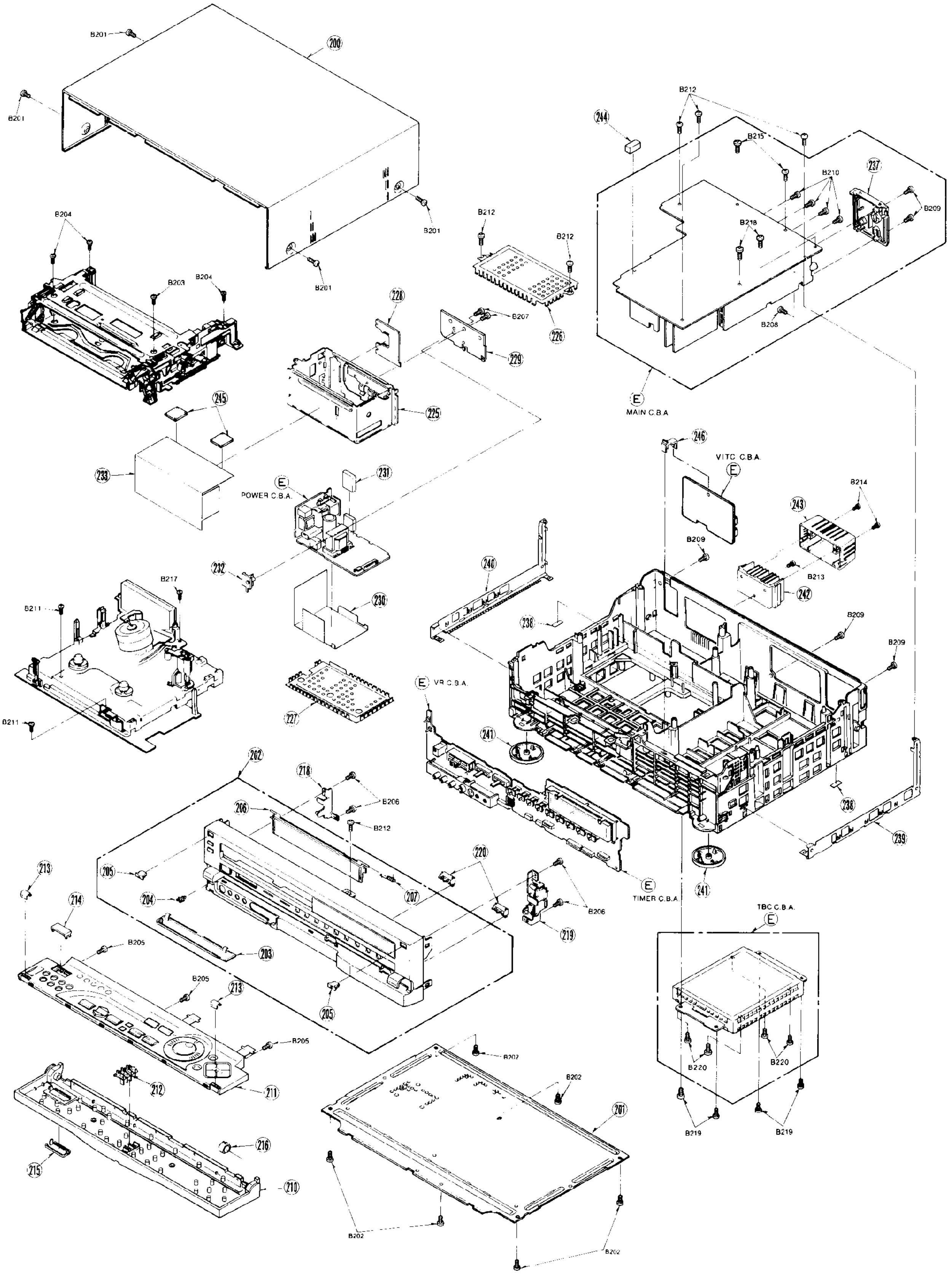
❸ Casing Parts Section



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MAIN C.B.A
E
POWER C.B.A.
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VITC C.B.A.
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VR C.B.A.
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241
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TIMER C.B.A.
TBC C.B.A.
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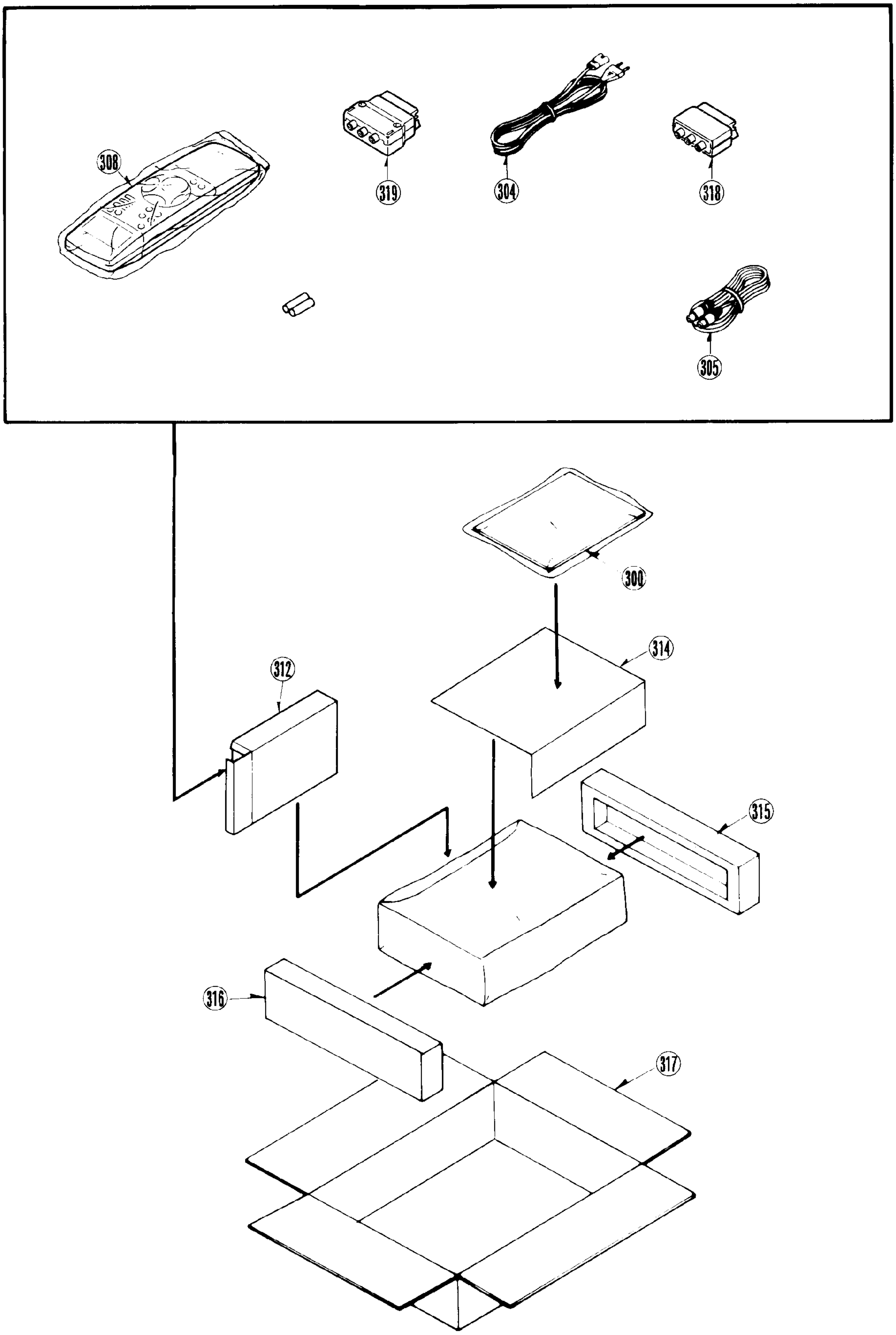
Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
200(3)		VGM1126	TOP PANEL	1	
201(3)		VKU0387	BOTTOM PLATE	1	
202(3)		VYP5771	FRONT PANEL (1) UNIT	1	AG-4700EY
202(3)		VYP5772	FRONT PANEL (1) UNIT	1	AG-4700BY
203(3)		VYF2145	SUB DOOR UNIT	1	AG-4700EY
203(3)		VYF2149	SUB DOOR UNIT	1	AG-4700BY
204(3)		VGQ0550	DOOR LOCK PIECE	1	
205(3)		VGQ2216	DOOR MAGNET	2	
206(3)		VKF2118	BLINDER PANEL	1	
207(3)		VMB2521	BLINDER SPRING	1	
210(3)		VYC0652	DOOR PANEL (1) UNIT	1	
211(3)		ESU19555G	DOOR PANEL SW UNIT	1	AG-4700EY
211(3)		ESU19555J	DOOR PANEL SW UNIT	1	AG-4700BY
212(3)		VGL0578	DOOR PANEL LIGHT	1	
213(3)		VMP4182	MAGNET ANGLE	2	
214(3)		VKW1333	IR WINDOW (INSIDE)	1	
215(3)		VKW1827	IR WINDOW (OUTSIDE)	1	
216(3)		VDG0954	DOOR GEAR	1	
218(3)		VXA5132	DOOR ANGLE (L) UNIT	1	
219(3)		VXA5130	DOOR ANGLE (R) UNIT	1	
220(3)		VGQ2807	FLEXIBLE CABLE HOLDER	2	
225(3)		VXA5129	POWER SHIELD PLATE (MAIN)U.	1	
226(3)		VSC2621	POWER SHIELD PLATE (TOP)	1	
227(3)		VSC2622	POWER SHIELD PLATE (BOTTOM)	1	
228(3)		VMP4183	INLET ANGLE	1	
229(3)		VSC3938	HEAT SINK (P)	1	
230(3)		VMZ2207	POWER BARRIER	1	<!>
231(3)		VMZ2208	INSULATION CAP	1	<!>
232(3)		VGQ3401	IC HOLDER	1	
233(3)		VMZ2257	SHIELD BARRIER	1	
237(3)		VJH0827	RF ANT TERMINAL PLATE	1	
238(3)		VKA0122	FOOT	2	
239(3)		VMP4448	SIDE ANGLE (R)	1	
240(3)		VMP4449	SIDE ANGLE (L)	1	
241(3)		VKA0165	LEG	2	
242(3)		VSC2623	HEAT SINK (O)	1	
243(3)		VKF1150	HEAT SINK COVER	1	
244(3)		VMT0199	C.B.A. SPACER	1	
245(3)		VMT0547	POWER CUSHION	2	
246(3)		VGQ1362	VITC HOLDER	1	
B201(3)		XTW3+10TFZ	SCREW	4	
B202(3)		VHD0059	SCREW	8	
B203(3)		XTV26+10F	SCREW	1	
B204(3)		XTV26+8FR	SCREW	3	
B205(3)		XTN26+8GFZ	SCREW	3	
B206(3)		XTV3+8G	SCREW	4	
B207(3)		XTS3+8J	SCREW	2	
B208(3)		XTV3+6F	SCREW	1	
B209(3)		XTV3+12JFZ	SCREW	5	
B210(3)		XTV3+8GFZ	SCREW	4	
B211(3)		VHD0168	SCREW	2	
B212(3)		VHD0773	SCREW	6	
B213(3)		XYC3+FF12FR	SCREW	1	
B214(3)		XTV3+14FZ	SCREW	2	
B215(3)		XTV3+10J	SCREW	2	
B216(3)		XTV3+8J	SCREW	2	
B217(3)		VHD0839	SCREW	1	
B219(3)		XTV3+10GR	SCREW	4	
B220(3)		XTN3+6F	SCREW	4	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
300(4)		VQT6295	OPERATING INSTRUCTIONS	1	<!>AG-4700EY
			(ENGLISH/GERMAN)		
300(4)		VQT6296	OPERATING INSTRUCTIONS	1	<!>AG-4700EY
			(FRENCH/ITALIAN)		
300(4)		VQT6297	OPERATING INSTRUCTIONS	1	<!>AG-4700EY
			(SPANISH)		
300(4)		VQT6291	OPERATING INSTRUCTIONS	1	<!>AG-4700BY
			(ENGLISH)		
304(4)		VJA0665	AC CORD	1	<!>AG-4700EY
304(4)		VJA0733	AC CORD	1	<!>AG-4700BY
305(4)		VJA0787	EDIT 5P CABLE	1	
308(4)		VEQ1681	REMOTE CONTROLLER	1	
312(4)		VPK0834	ACCESSORIES PACKING	1	
314(4)		VPN3779	UPPER PAD	1	
315(4)		VPN3763	CUSHION (R)	1	
316(4)		VPN3764	CUSHION (L)	1	
317(4)		VPG8205	PACKING	1	AG-4700EY
317(4)		VPG8207	PACKING	1	AG-4700BY
318(4)		VFA0151	AV ADAPTOR (IN)	1	
319(4)		VFA0163	AV ADAPTOR (OUT)	1	
			SERVICE FIXTURES & TOOLS		
		VFJ8125H3F	VHS ALIGNMENT TAPE(PAL)	1	
		VFK0335	RETAINING RING REMOVER	1	
			(3mm/4mm)		
		VFK0329	POST ADJUSTMENT SCREWDRIVER	1	
		VFK0326	HEX WRENCH SET	1	
		VFK0132	BACK TENSION METER	1	
		VFK27	HEAD CLEANING STICK	1	
		MOR265	MORLYTONE GREASE	1	
		VFK0341	UPPER CYLINDER REMOVER	1	
		VFK0680	WHITE GREASE	1	
		VFK0851	CENTRE FIXING TOOL	1	
		VFK0330	FINE ADJUSTMENT GEAR DRIVER	1	
		VFK0678	18P EXTENSION CABLE	2	
		VFK0764	10P EXTENSION CABLE	1	
		VFK0918	17P EXTENSION CABLE	1	
		VFK0937	9P EXTENSION CABLE	1	
		VFK0938	12P EXTENSION CABLE	2	
		VFK0939	13P EXTENSION CABLE	1	
		VFK0940	14P EXTENSION CABLE	1	

❹ Packing Parts Section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16. ELECTRICAL REPLACEMENT PARTS LIST

16-1. ELECTRICAL REPLACEMENT PARTS LIST FOR AG-4700EY

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP03C01C	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			MAIN		
		VEP07801B	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			TV DEMODULATOR		FOR VEP03C01C
		VEP02412B	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			CAP DRIVE		FOR VEP03C01C
		VEP03A61G	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			Y/C		FOR VEP03C01C
		VEP03A62D	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			SUB Y/C		FOR VEP03C01C
		VEP03A90B	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			REC/RF		FOR VEP03C01C
		VEP03A72E	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			INPUT/OUTPUT		FOR VEP03C01C
		VEP04417B	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			SUB AUDIO		FOR VEP03C01C
		VEP04447PS	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			FM AUDIO PACK		FOR VEP03C01C
		VEP07671A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			DECODER PACK		FOR VEP03C01C
		VEP06B45A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			VR		
		VEP07739X	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			TIMER		
		VEX0235	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			CYLINDER DRIVE		
		VEP03A53A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			TBC		
		VEP03A63A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			VITC		
		VEP05176G	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			HEAD AMP		
		VEP01558C	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			POWER		
		VEP00T87A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
			MECHANISM CONNECTION		
F1101		XBA2C16TH15	FUSE	1	<!>
		VEP03C01C	P.C.BOARD W/COMPONENT		
			MAIN		
C301		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C303		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C305		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C306		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C307		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C308		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C309		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C310		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C311		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C312		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C313		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C314		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C315,16		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C317		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C318		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C319		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C321,22		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	2	
C324		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C325,26		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C329		ECQV1H334JM	P.CAPACITOR 50V 0.33U	1	
C331		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C332,33		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C334		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C335		ECEA0JKA220	E.CAPACITOR 6.3V 220U	1	
C336		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C337		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C338		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C339		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C340		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C341		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C342		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C343		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C344		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C345,46		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C348		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C349		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C350		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C0701,02		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C0704		ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C0706		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C0707,08		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C0709		ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C0710		ECUX1H470JPV	C.CAPACITOR 50V 47P	1	
C0711		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0712		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0714		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C0715		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C0716		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0717		ECUX1H270JPV	C.CAPACITOR 50V 27P	1	
C0718		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C0719		ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C0720		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0723		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C0726		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0730		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0732		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C801		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C802		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C803		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C804		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C805,06		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C808		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C809		ECEA1HKA4R7	E.CAPACITOR 50V 4.7U	1	
C810		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C811-13		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C814		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C815		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C816		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C817		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C818		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C819		ECWM1H332JZ	P.CAPACITOR CH 50V 3300P	1	
C820		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C821-23		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C824		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C825-27		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C828,29		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	2	
C830		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C831		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C832		ECQV1H154JM	P.CAPACITOR 50V 0.15U	1	
C833		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C834		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C835		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C836		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C2001		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2003		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C2005		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2006		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C2007		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2009		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2010		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2501-04		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C2505		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2506		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2507		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2508-10		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	3	
C2511-14		ECUM1E333KBN	C.CAPACITOR CH 25V 0.033U	4	
C2515		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2516		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C2517		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2518		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2519,20		ECUM1E333KBN	C.CAPACITOR CH 25V 0.033U	2	
C2521		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2522		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	1	
C2523		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C2524,25		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C2526		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2527		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C2528		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	1	
C2529		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2530		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2531		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C2532		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2533		ECEA0JKA330	E.CAPACOTOR 6.3V 33U	1	
C2534,35		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
C3001		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C3002		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3003-06		ECEA1HKA010	E.CAPACITOR 50V 1U	4	
C3007,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3009		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3010		ECA1AM331	E.CAPACITOR 10V 330U	1	
C3011		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3012		ECA1AM331	E.CAPACITOR 10V 330U	1	
C3013		ECA0JM331	E.CAPACITOR 6.3V 330U	1	
C3014		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3015		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3016		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3017-19		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C3022		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3023,24		ECEA1AKA330	E.CAPACITOR 10V 33U	2	
C3027,28		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3029		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3030		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3031		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3032		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3033		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3050		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C3301		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3302		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3304-08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C3309		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3310		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3312-14		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3321		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3322		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3323		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3324		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3325		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3326		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3327,28		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3329		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3330		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3336		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3338		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3339		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3340		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3341		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3342		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3343		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3344		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3345		ECUM1H391JCN	C.CAPACITOR CH 50V 390P	1	
C3346		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3347		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3351,52		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	2	
C3353		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3354		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3372		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C3401		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3402		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C3403-07		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C3408,09		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3421		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C3422		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3423		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C3424		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3425		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3426		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3427		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3428		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3429		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3430		ECEA0JKA330	E.CAPACOTOR 6.3V 33U	1	
C3431		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3443		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3444		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3445		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3447		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C3448		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3449		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3450,51		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C3452		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3472		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3473		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3474		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3475-77		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3501		ECA0JM471	E.CAPACITOR 6.3V 470U	1	
C3502		ECRHA030E54	TRIMMER	1	
C3503		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3504		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C3505		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3506		ECWM1H682JZ	P.CAPACITOR CH 50V 6800P	1	
C3507		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3508		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C3509		ECUM1H122KBN	C.CAPACITOR CH 50V 1200P	1	
C3510		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3511		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3512		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3513		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C3514,15		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C3516,17		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C3518		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C3519		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C3520		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C3521		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3522		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C3523		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3524		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3525-27		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3528		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3529		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3530		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3531		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3532		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3533		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C3534		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3601		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3602		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3603		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3604		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3605		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3606		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3607		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3608		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3609		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C3610		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3611,12		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	2	
C3613		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3614		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3901-05		ECEA1CKA100	E.CAPACITOR 16V 10U	5	
C3906		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3907		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3908		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3909,10		ECA1AM471	E.CAPACITOR 10V 470U	2	
C3911		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C3912		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C3913		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3914		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C3915		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3916		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3917		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3918		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3919		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3922		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3923		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3924		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3927		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C4001,02		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4003,04		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C4005		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4006		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C4007		ECEA1CPZ101	E.CAPACITOR 16V 100U	1	
C4008		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C4009		ECEA1CPZ101	E.CAPACITOR 16V 100U	1	
C4010		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C4011,12		ECUM1H122KBN	C.CAPACITOR CH 50V 1200P	2	
C4501		ECQB1H152JZ	F.CAPACITOR 50V 1500P	1	
C4502		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4503		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4504,05		ECEA1CU470	E.CAPACITOR 16V 47U	2	
C4506		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4507		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4508		ECEA1EBZ4R7	E.CAPACITOR 25V 4.7U	1	
C4509		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4510		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4511		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4512		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4513		ECUX1H681JV	C.CAPACITOR CH 50V 680P	1	
C4514		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4515		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C4517		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4518		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4521		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4522		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C4528		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4530		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C4533		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4537		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4538		ECEA1HUR47	E.CAPACITOR 50V 0.47U	1	
C4539		ECUX1C224ZFV	C.CAPACITOR CH 16V 0.22U	1	
C4541		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4545		ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4551		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4552		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4556		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4558		ECEA1EBZ4R7	E.CAPACITOR 25V 4.7U	1	
C4559		ECEA1AU470	E.CAPACITOR 10V 47U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4560		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4561		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4562		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4563		ECUX1H681JV	C.CAPACITOR CH 50V 680P	1	
C4564		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4565		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C4567		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4568		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4572		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C4576		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4583		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4585,86		ECEA1AU101	E.CAPACITOR 10V 100U	2	
C4591		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4592		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4593		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4594,95		ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C4596		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4597		ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C4598		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4604		ECUM1H182JN	C.CAPACITOR CH 50V 1800P	1	
C4606		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C4611		ECQB1H182JZ	F.CAPACITOR 50V 1800P	1	
C4613		ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C4616		ECUX1H102ZFV	C.CAPACITOR CH 50V 1000P	1	
C4617		ECEA10M22	E.CAPACITOR 10V 22U	1	
C4618		ECQB1H822JZ	P.CAPACITOR 50V 8200P	1	
C4621		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C4629		ECQB1H562JZ	P.CAPACITOR 50V 5600P	1	
C4636		ECUX1H471JV	C.CAPACITOR CH 50V 470P	1	
C4638		ECQB1H822JZ	P.CAPACITOR 50V 8200P	1	
C4652,53		ECUM1C105ZFN	C.CAPACITOR CH 16V ,1U	2	
C4701		ECCD2H181J	C.CAPACITOR 500V 180P	1	
C4702		ECQP1222JZ	P.CAPACITOR 100V 2200P	1	
C4703		ECQB1H102JF	P.CAPACITOR 50V 1000P	1	
C4704		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4705		ECEA16M33	E.CAPACITOR 16V 33U	1	
C4706		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C4707		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4708		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4709		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C4710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4711,12		ECEA1AKA220	E.CAPACITOR 10V 22U	2	
C4713		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C4714		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C4901,02		ECQB1H103JZ	P.CAPACITOR 50V 0.01U	2	
C4903,04		ECWM1H332JZ	P.CAPACITOR CH 50V 3300P	2	
C4905,06		VCEA1CAD100	E.CAPACITOR 16V 10U	2	
C4907,08		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4909,10		ECQB1H103JZ	P.CAPACITOR 50V 0.01U	2	
C4911,12		ECWM1H332JZ	P.CAPACITOR CH 50V 3300P	2	
C4913,14		VCEA1CAD100	E.CAPACITOR 16V 10U	2	
C4915,16		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4917,18		ECQB1H103JZ	P.CAPACITOR 50V 0.01U	2	
C4919,20		ECWM1H332JZ	P.CAPACITOR CH 50V 3300P	2	
C4923,24		VCEA0JAC101	E.CAPASITOR 6.3V 100U	2	
C6001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6002		ECEA0JKA330	E.CAPACITOR 6.3V 33U	1	
C6003		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6004		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6005		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6006		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6007,08		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C6010		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C6011		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C6012		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C6013		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C6014		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C6015		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C6016,17		ECEA1HKN3R3	E.CAPACITOR 50V 3.3U	2	
C6018		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C6019		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6020		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6021		ECEA16M10	E.CAPACITOR 16V 1U	1	
C6022		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C6023		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C6024		ECEA1HKA4R7	E.CAPACITOR 50V 4.7U	1	
C6025		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C6026		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C6027		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C6028		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C6029		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C6030		EECS5R5T224N	E.CAPACITOR 5.5V 0.22U	1	
C6034		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6035		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C6036		ECEA0JKA330	E.CAPACITOR 6.3V 33U	1	
C6037		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6038		ECEA1AKA470	E.CAPACITOR 10V 47U	1	
C6040		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6041		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C6042		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6043		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6045		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6046		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6049		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C6050,51		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C6053-56		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C6062		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C6063		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C7302		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7303		ECQV1H393JZ	P.CAPACITOR 50V 0.039U	1	
C7304		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7305		ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C7306		ECQB1H102KZ	P.CAPACITOR 50V 1000P	1	
C7307		ECQB1H822KZ	P.CAPACITOR 50V 8200P	1	
C7308		ECQB1H102KZ	P.CAPACITOR 50V 1000P	1	
C7309		ECQB1H152JH	P.CAPACITOR 50V 1500P	1	
C7310		ECEA16M10	E.CAPACITOR 16V 1U	1	
C7311		ECEA50MR47	E.CAPACITOR 50V 0.47U	1	
C7312		ECQV1H224JM	P.CAPACITOR 50V 0.22U	1	
C7313		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C7314		ECQV1H224JM	P.CAPACITOR 50V 0.22U	1	
C7315		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C7316		ECQV1H224JM	P.CAPACITOR 50V 0.22U	1	
C7317		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C7318		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7319		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7320,21		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C7323,24		ECQV1H393JZ	P.CAPACITOR 50V 0.039U	2	
C7331		ECQV1H474JM	P.CAPACITOR 50V 0.47U	1	
C7332,33		ECUM1H102ZFN	C.CAPACITOR CH 50V 1000P	2	
C7334		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7335		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7336		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7337		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C7339		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7340		ECUM1H390JPN	C.CAPACITOR CH 50V 39P	1	
C7341		ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C7342		ECQV1H823JM	P.CAPACITOR 50V 0.082U	1	
C7343		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7345		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7346		ECUM1H390JPN	C.CAPACITOR CH 50V 39P	1	
C7347		ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C7348		ECQV1H393JZ	P.CAPACITOR 50V 0.039U	1	
C7349,50		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	2	
C7351,52		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7353		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7408		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7409		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7410		ECUM1H563ZFN	C.CAPACITOR CH 50V 0.056U	1	
C7411		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7412		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7413		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C7414		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C7415		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7416		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C7417		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7418		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C7419		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7420		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7421		ECEA1CKA101	E.CAPACITOR 16V 100U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7422,23		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7424		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7425		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7426		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7427		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7428		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C7429		ECEA1CSN100	E.CAPACITOR 16V 10U	1	
D301		1SS283	DIODE	1	<R>
D303		MA151WK	DIODE	1	<R>
D305		1SS254	DIODE	1	<R>
D306		MA723VT	DIODE	1	<R>
D307		1SS254	DIODE	1	<R>
D308,09		MA151WK	DIODE	2	<R>
D801-07		1SS254	DIODE	7	<R>
D808		MA151WK	DIODE	1	<R>
D2001-05		1SS254	DIODE	5	<R>
D2501-08		1SS254	DIODE	8	<R>
D2510		1SS254	DIODE	1	<R>
D3002		MA28W-A	DIODE	1	<R>
D3003		1SS254	DIODE	1	<R>
D3301		1SS254	DIODE	1	<R>
D3302		MA151K	DIODE	1	<R>
D3304		MA151K	DIODE	1	<R>
D3403		MA723VT	DIODE	1	<R>
D3408		1SS254	DIODE	1	<R>
D3501		1SS254	DIODE	1	<R>
D3502		MA153	DIODE	1	<R>
D3504		MA151WK	DIODE	1	<R>
D3901		1SS254	DIODE	1	<R>
D3902		MA4130L	DIODE	1	<R>
D3903		1SS254	DIODE	1	<R>
D3904		MA151WK	DIODE	1	<R>
D3906		MA151WA	DIODE	1	<R>
D3908,09		1SS254	DIODE	2	<R>
D4003		MA723VT	DIODE	1	<R>
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D4501-04		MA141K	DIODE	4	<R>
D4601,02		MA141K	DIODE	2	<R>
D4701-03		1SS254	DIODE	3	<R>
D6001		1SS254	DIODE	1	<R>
D6002		MA723VT	DIODE	1	<R>
D6003		1SS254	DIODE	1	<R>
D6005		MA151WK	DIODE	1	<R>
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D6008		MA151WA	DIODE	1	<R>
D6009		11EQS04	DIODE	1	<R>
D6011,12		11EQS04	DIODE	2	<R>
D6013		MA723VT	DIODE	1	<R>
D6014		1SS254	DIODE	1	<R>
D6015		MA723VT	DIODE	1	<R>
D7303		MA28WA	DIODE	1	<R>
D7304		MA3100L	DIODE	1	<R>
D7402		MA4300M	DIODE	1	<R>
DL801		EFDUN124A13N	DELAY	1	<R>
DL802		EFDVR645A45A	DELAY LINE	1	<R>
DL803		VLD0147	DELAY LINE	1	<R>
FL301		ELB4M022	FILTER	1	
FL302		VLF0639	FILTER	1	
FL801		VLF1079	FILTER	1	
FL3001		ELB4H020	FILTER	1	
FL3601		ELB4R031	FILTER	1	
FL3901		VLF1120	FILTER	1	
FL3902		VLF0765	FILTER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC301		VCR0390	IC	1	<R>
IC302		MN3859S	IC	1	<R>
IC303		AN1358S	IC	1	<R>
IC0701		LA7576	IC	1	<R>
IC801		VCR0383	IC	1	<R>
IC802		M52352FP	IC	1	<R>
IC2001		AN3727S	IC	1	<R>
IC2002		UPD4053BG	IC	1	<R>
IC2501		BA6219B	IC	1	<R>
IC2502		LM358PS	IC	1	<R>
IC2503		XRA6439S	IC	1	<R>
IC2504		LM358PS	IC	1	<R>
IC2505		LM393P	IC	1	<R>
IC3001		AN3581S	IC	1	<R>
IC3002		M52055FP	IC	1	<R>
IC3301		M52083FP	IC	1	<R>
IC3401		NJM2233BMA	IC	1	<R>
IC3403		MN155202VZAM	IC	1	<R>
IC3404		MN1280-S	IC	1	<R>
IC3405		UPD4066BG	IC	1	<R>
IC3501		LC74760	IC	1	<R>
IC3502		M52055FP	IC	1	<R>
IC3503		NJM2246DA	IC	1	<R>
IC3504		NJM2233BMA	IC	1	<R>
IC3601		AN6308S	IC	1	<R>
IC3901		M52475AP	IC	1	<R>
IC3902		AN3916	IC	1	<R>
IC3904		AN1393S	IC	1	<R>
IC4001		NJM4565DD	IC	1	<R>
IC4501		XLH7773AKS	IC	1	<R>
IC4601		BA7755AF	IC	1	<R>
IC4701		AN1358S	IC	1	<R>
IC4702		MN4066BS	IC	1	<R>
IC4901		LA7155M	IC	1	<R>
IC4902		MN4066BS	IC	1	<R>
IC6001		MN6755320H3W	IC	1	<R>
IC6002		M38024V1BN	IC	1	<R>
IC6003		MN1280-S	IC	1	<R>
IC6005		UPD4052BG	IC	1	<R>
IC6007		M6M80041P	IC	1	<R>
IC6008		TL431CLP	IC	1	<R>
IC7301		TDA3803A	IC	1	<R>
IC7302		TA8721SN	IC	1	<R>
IC7401		M66006FP	IC	1	<R>
IC7402		LA7217M	IC	1	<R>
J3901,02		VJS1470	CONNECTOR (FEMALE)	2	
K2		ERJ3GEY0R00	M.RESISTOR CH1/16W 0	1	
K4		ERJ3GEY0R00	M.RESISTOR CH1/16W 0	1	
K6		ERJ3GEY0R00	M.RESISTOR CH1/16W 0	1	
K0702		ERJ3GEY0R00	M.RESISTOR CH1/16W 0	1	
K0704,05		ERJ3GEY0R00	M.RESISTOR CH1/16W 0	2	
K3010		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
K3908		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
K6003-05		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	3	
K7404		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
K7406-08		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	3	
K7417		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
L302		VLQ0188J180	COIL 18UH	1	
L304		VLQ0188J270	COIL 27UH	1	
L305		VLQ0188J101	COIL 100UH	1	
L306		VLQ0188J390	COIL 39UH	1	
L309-11		VLQ0188J330	COIL 33UH	3	
L312		VLQ0407101K	COIL 100UH	1	
L0701,02		ELJNAR10MF	COIL	2	
L0705		VLQ0163J5R6	COIL 5.6UH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L0706		VLQEL05S120K	COIL 12UH	1	
L801,02		ELESE681KA	COIL 680UH	2	
L803		ELESE331KA	COIL 330UH	1	
L804		VLQ0407101K	COIL 100UH	1	
L806		VLQ0407101K	COIL 100UH	1	
L807,08		VLQ0188J150	COIL 15UH	2	
L809		VLQ0188J330	COIL 33UH	1	
L810		VLQ0188J150	COIL 15UH	1	
L811		VLQ0188J151	COIL 150UH	1	
L812		VLQ0188J270	COIL 27UH	1	
L813,14		VLQ0188J150	COIL 15UH	2	
L2001		VLQ0569	COIL	1	
L2002		VLQ0556	COIL	1	
L2501		VLP0074	COIL	1	
L2502		ELESE330KA	COIL 33UH	1	
L2503		ELESE102KA	COIL 1000UH	1	
L3001-03		VLQ0188J330	COIL 33UH	3	
L3004		VLQ0398	COIL	1	
L3005-08		VLQ0556	COIL	4	
L3301		VLQ0188J150	COIL 15UH	1	
L3304		VLQ0188J330	COIL 33UH	1	
L3306		VLQ0188J390	COIL 39UH	1	
L3307		VLQ0188J120	COIL 12UH	1	
L3308		VLQ0188J330	COIL 33UH	1	
L3309		VLQ0188J181	COIL 180UH	1	
L3310		VLQ0188J270	COIL 27UH	1	
L3313		ELESE681KA	COIL 680UH	1	
L3315,16		VLQ0188J5R6	COIL 5.6UH	2	
L3318		VLQ0188J330	COIL 33UH	1	
L3323		VLQ0188J330	COIL 33UH	1	
L3401		VLQ0188J150	COIL 15UH	1	
L3404		VLQ0188J220	COIL 22UH	1	
L3405		VLQ0188J330	COIL 33UH	1	
L3412		VLQ0188J330	COIL 33UH	1	
L3415		VLQ0188J120	COIL 12UH	1	
L3501		VLQ0188J330	COIL 33UH	1	
L3502		VLQ0188J5R6	COIL 5.6UH	1	
L3503		VLQ0188J100	COIL 10UH	1	
L3504		VLQ0188J390	COIL 39UH	1	
L3505		VLQ0188J820	COIL 82UH	1	
L3508		VLQ0188J330	COIL 33UH	1	
L3601		VLQEL05S120K	COIL 12UH	1	
L3602,03		VLQEL05S101K	COIL 100UH	2	
L3604		VLQEL05S151K	COIL	1	
L3605		VLQEL05S820K	COIL 82UH	1	
L3901-04		ELESE101KA	COIL 100UH	4	
L3906		VLQ0188J1R0	COIL 1UH	1	
L4001,02		ELESE101KA	COIL 100UH	2	
L4501,02		ELESE101KA	COIL 100UH	2	
L4601		VLQEL07F153J	COIL	1	
L4701		ELESE471KA	COIL	1	
L4702		ELESE101KA	COIL 100UH	1	
L4901,02		ELESE102KA	COIL 1000UH	2	
L4903,04		ELESE101KA	COIL 100UH	2	
L4905,06		ELESE102KA	COIL 1000UH	2	
L4907,08		ELESE101KA	COIL 100UH	2	
L4909,10		ELESE102KA	COIL 1000UH	2	
L6001		VLP0083	COIL	1	
L6002		ELESE101KA	COIL 100UH	1	
L6003		VLP0083	COIL	1	
L6007,08		VLP0083	COIL	2	
L6009		ELESE101KA	COIL 100UH	1	
L7301		ELESQ102KA	COIL 1000UH	1	
L7407		VLQ0599J1R0	COIL	1	
L7408-12		VLQ0599J680	COIL 68UH	5	
P1001		VJP2593	CONNECTOR (MALE)	1	
P1001		VJS2593	CONNECTOR (FEMALE)	1	
P1002		VJP1142	CONNECTOR	1	
P1002		VJS1142	CONNECTOR (FEMALE)	1	
P1102		VJS1932	CONNECTOR (FEMALE)	1	
P1103		VJS1142	CONNECTOR (FEMALE)	1	
P1509		VJS1229	CONNECTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P2001		VJP1232T	CONNECTOR (MALE) 5P	1	
P2001		VJS1738T	CONNECTOR (FEMALE)	1	
P2003		VJP3502	CONNECTOR	1	
P2003		VJS3482	CONNECTOR	1	
P2004		VJS3537A015G	CONNECTOR	1	
P2902		VJS1738T	CONNECTOR (FEMALE)	1	
P3001		VJS3537A020G	CONNECTOR	1	
P3002		VJP3233A010	CONNECTOR	1	
P3002		VJS3366Z010	CONNECTOR	1	
P3003		VJF0171	CONNECTOR	1	
P3003		VJP1393T	CONNECTOR (MALE) 13P	1	
P3004		VJF0171T	CONNECTOR	1	
P3004		VJP1393T	CONNECTOR (MALE) 13P	1	
P3801		VJF0171T	CONNECTOR	1	
P4001		VJS2331	CONNECTOR (FEMALE)	1	
P4002		VJP1238T	CONNECTOR (MALE) 11P	1	
P4002		VJS1744T	CONNECTOR (FEMALE)	1	
P4003		VJP1230T	CONNECTOR (MALE) 3P	1	
P4003		VJS1230	CONNECTOR	1	
P6001		VJS3537A014G	CONNECTOR	1	
P6003		VJP1233T	CONNECTOR (MALE) 6P	1	
P6003		VJS1739T	CONNECTOR (FEMALE)	1	
P6004		VJP1235T	CONNECTOR (MALE) 8P	1	
P6004		VJS1741T	CONNECTOR (FEMALE)	1	
P6502		VJS1744T	CONNECTOR (FEMALE)	1	
P7401,02		VJS3537A020G	CONNECTOR	2	
P7503		VJS3366Z010	CONNECTOR	1	
P7504		VJS1739T	CONNECTOR (FEMALE)	1	
P9001		VJF0171	CONNECTOR	1	
P9002		VJS1741T	CONNECTOR (FEMALE)	1	
PK0701		VJR0816E010W	CONNECTOR	1	
PK4001-03		VJR0757B018T	CONNECTOR	3	
PP0701		VJP3589A004B	CONNECTOR	1	
PP2001		VJP3042A012W	CONNECTOR (MALE) 12P	1	
PP2002		VJP3042A010W	CONNECTOR (MALE) 10P	1	
PP3001		VJP3042A009W	CONNECTOR (MALE) 9P	1	
PP3002		VJP3042A012W	CONNECTOR (MALE) 12P	1	
PP3003		VJP3042A013W	CONNECTOR (MALE) 13P	1	
PP3011,12		VJP3042A018W	CONNECTOR (MALE) 18P	2	
PP3013		VJP3042A014W	CONNECTOR (MALE) 14P	1	
PP3021-24		VJP3043A012W	CONNECTOR (MALE) 12P	4	
PP3301		VJP3042A011W	CONNECTOR (MALE) 11P	1	
PP4501		VJP3042A017W	CONNECTOR (MALE) 17P	1	
PS301		VJS3042B009W	CONNECTOR (FEMALE) 9P	1	
PS302		VJS3042B012W	CONNECTOR (FEMALE) 12P	1	
PS303		VJS3042B013W	CONNECTOR (FEMALE) 13P	1	
PS2001		VJS3042B012W	CONNECTOR (FEMALE) 12P	1	
PS2002		VJS3042B010W	CONNECTOR (FEMALE) 10P	1	
PS3021-24		VJS3043B012W	CONNECTOR (FEMALE) 12P	4	
PS3302,03		VJS3042B018W	CONNECTOR (FEMALE) 18P	2	
PS3501		VJS3042F014W	CONNECTOR (FEMALE) 14P	1	
PS3601		VJS3042B011W	CONNECTOR (FEMALE) 11P	1	
PS4701		VJS3042B017W	CONNECTOR (FEMALE) 17P	1	
PS7301,02		VJR0477	PACK PIN	2	
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Q801		2SA1022	TRANSISTOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
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Q2001,02		MSB709	TRANSISTOR	2	<R>
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Q3002		2SB1322	TRANSISTOR	1	<R>
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Q3410-12		MSD601	TRANSISTOR	3	<R>
Q3422		MSD1328	TRANSISTOR	1	<R>
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Q3425		MSC2295	TRANSISTOR	1	<R>
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Q3501		MSD601	TRANSISTOR	1	<R>
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Q3601		MSD601	TRANSISTOR	1	<R>
Q3602,03		MSC2295	TRANSISTOR	2	<R>
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Q3901,02		2SD1991A	TRANSISTOR	2	<R>
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Q3907		MSD601	TRANSISTOR	1	<R>
Q3912		2SD1996	TRANSISTOR	1	<R>
Q3913-15		MSD601	TRANSISTOR	3	<R>
Q3916		MSB710	TRANSISTOR	1	<R>
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Q4552		2SD1819A	TRANSISTOR	1	<R>
Q4601,02		2SD1819A	TRANSISTOR	2	<R>
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Q6008		2SD1991	TRANSISTOR	1	<R>
Q7301		MSD601-S	TRANSISTOR	1	<R>
Q7304,05		MSD601	TRANSISTOR	2	<R>
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QR315		MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR316,17		XN6213	TRANSISTOR-RESISTOR	2	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR318		MRN1402	TRANSISTOR-RESISTOR	1	<R>
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QR801,02		MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR803		MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR805		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR806		XN6213	TRANSISTOR-RESISTOR	1	<R>
QR1001		MUN2211	TRANSISTOR-RESISTOR	1	<R>
QR2001		XN1213	TRANSISTOR-RESISTOR	1	<R>
QR2002		MUN2113	TRANSISTOR-RESISTOR	1	<R>
QR2501		XN1211	TRANSISTOR-RESISTOR	1	<R>
QR3001,02		MUN2212	TRANSISTOR-RESISTOR	2	<R>
QR3003		MUN2111	TRANSISTOR-RESISTOR	1	<R>
QR3301-04		DTC363EK	TRANSISTOR-RESISTOR	4	<R>
QR3305		UN211D	TRANSISTOR-RESISTOR	1	<R>
QR3306		DTC363EK	TRANSISTOR-RESISTOR	1	<R>
QR3307,08		MRN1404	TRANSISTOR-RESISTOR	2	<R>
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QR3409,10		MRN1403	TRANSISTOR-RESISTOR	2	<R>
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QR4001		MUN2212	TRANSISTOR-RESISTOR	1	<R>
QR4002,03		DTC363EK	TRANSISTOR-RESISTOR	2	<R>
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QR4508,09		UN5113	TRANSISTOR-RESISTOR	2	<R>
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QR4701-03		MRN1403	TRANSISTOR-RESISTOR	3	<R>
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QR7301,02		MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR7312-14		MRN1402	TRANSISTOR-RESISTOR	3	<R>
QR7315,16		MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR7401		MUN2112	TRANSISTOR-RESISTOR	1	<R>
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R301		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R303		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R304		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R305		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R306		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
R307		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R308		ERJ6GMYJ104	M.RESISTOR CH1/10W 1M	1	
R309		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R310		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R311		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R312		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R313		ERJ6GMYJ361	M.RESISTOR CH1/10W 360	1	
R314		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R315		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R316		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R317		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R318		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	1	
R319		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R320		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R321		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R322		ERJ6GMYG123	M.RESISTOR CH1/10W 12K	1	
R323		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R324		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R325		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R326		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R327		ERJ6GMYG432	M.RESISTOR CH1/10W 4.3K	1	
R328		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R329		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R330		ERJ6GMYG432	M.RESISTOR CH1/10W 4.3K	1	
R331		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R332		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R333		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R334		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R335		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R336		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R337		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R338,39		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R340		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R341		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R342		ERJ6GMYJ181	M.RESISTOR CH1/10W 180	1	
R343		ERJ6GMYJ273	M.RESISTOR CH1/10W 27K	1	
R344		ERJ6GMYJ911	M.RESISTOR CH1/10W 910	1	
R345		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R346		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R347		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R348		ERJ6GMYJ273	M.RESISTOR CH1/10W 27K	1	
R349		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R350		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R351		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R352		ERJ6GMYG183	M.RESISTOR CH1/10W 18K	1	
R353		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R354		ERJ6GMYG753	M.RESISTOR CH1/10W 75K	1	
R355		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R356		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R357		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R358		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R359		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
R360,61		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R0702		ERJ3GEYJ272	M.RESISTOR CH1/16W 2.7K	1	
R0704		ERJ3GEYJ222	M.RESISTOR CH1/16W 2.2K	1	
R0705		ERJ3GEYJ562	M.RESISTOR CH1/16W 5.6K	1	
R0706,07		ERJ3GEYJ272	M.RESISTOR CH1/16W 2.7K	2	
R0708		ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R0709		ERJ3GEYJ105	M.RESISTOR CH1/16W 1M	1	
R0710		ERJ6GEYJ154	M.RESISTOR CH1/10W 150K	1	
R0713		ERJ3GEYJ331	M.RESISTOR CH1/16W 330	1	
R0714		ERJ3GEYJ470	M.RESISTOR CH1/16W 47	1	
R0715		ERJ3GEYJ183	M.RESISTOR CH1/16W 18K	1	
R0716		VRE0040E151	M.RESISTOR CH1/10W 150	1	
R0717		ERJ3GEY0R00	M.RESISTOR CH1/16W 0	1	
R0718		ERJ3GEYJ102	M.RESISTOR CH1/16W 1K	1	
R0719		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R0720		ERJ3GEYJ102	M.RESISTOR CH1/16W 1K	1	
R0722		ERJ3GEYJ101	M.RESISTOR CH1/16W 100	1	
R0728		ERJ3GEYJ471	M.RESISTOR CH1/16W 470	1	
R0729		ERJ3GEYJ102	M.RESISTOR CH1/16W 1K	1	
R0732		ERJ3GEYJ471	M.RESISTOR CH1/16W 470	1	
R0783		ERJ3GEYJ393	M.RESISTOR CH1/16W 39K	1	
R801		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R802		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R803		ERJ6GMYJ242	M.RESISTOR CH1/10W 2.4K	1	
R804,05		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R809		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R810,11		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R814		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R815		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R816		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
R817		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R818		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R820		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R821,22		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R824		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R825		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	1	
R826		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	1	
R827		ERJ6GMYJ154	M.RESISTOR CH1/10W 150K	1	
R828		ERJ6GMYJ204	M.RESISTOR CH1/10W 200K	1	
R829		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R830		ERJ6GMYJ154	M.RESISTOR CH1/10W 150K	1	
R831		ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	1	
R832		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R833		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R834		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R835,36		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	2	
R837		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R838,39		ERJ6GMYJ681	M.RESISTOR CH1/10W 680	2	
R840		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R841		ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R842,43		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	2	
R844		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R845		ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R846		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R847		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R848		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R849		ERJ6GMYK395	M.RESISTOR CH1/10W 3.9M	1	
R850		ERJ6GMYJ302	M.RESISTOR CH1/10W 3K	1	
R851,52		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R853		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R1001		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R2004		ERJ6GMYJ104	M.RESISTOR CH1/10W 1M	1	
R2005		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R2011		ERJ6GMYG222	M.RESISTOR CH1/10W 2.2K	1	
R2012		ERJ6GMYG392	M.RESISTOR CH1/10W 3.9K	1	
R2013,14		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	2	
R2015		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R2016		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R2018		ERJ6GMYJ104	M.RESISTOR CH1/10W 1M	1	
R2019		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R2501		ERX1SJ1R8	M.RESISTOR 1W 1.8	1	
R2502		ERJ6GMYG112	M.REISITOR CH1/10W 1.1K	1	
R2503		ERJ6GMYG102	M.RESISTOR CH1/10W 1K	1	
R2504		ERJ6GMYG332	M.RESISTOR CH1/10W 3.3K	1	
R2505		VRE0034E103	M.RESISTOR CH1/10W 10K	1	
R2506		ERJ6GMYJ564	M.RESISTOR CH1/10W 560K	1	
R2507		VRE0034E103	M.RESISTOR CH1/10W 10K	1	
R2508		VRE0034E512	M.RESISTOR CH1/10W 5.1K	1	
R2509		VRE0034E472	M.RESISTOR CH1/10W 4.7K	1	
R2510		ERJ6GMYJ105	M.RESISTOR CH1/10W 1M	1	
R2511		ERJ6GMYJ684	M.RESISTOR CH1/10W 680K	1	
R2513		ERJ6GMYG133	M.RESISTOR CH1/10W 13K	1	
R2514		ERJ6GMYG821	M.RESISTOR CH1/10W 820	1	
R2515		ERG12SJ561	M.RESISTOR 1/2W 560	1	
R2516		ERJ6GMYG473	M.RESISTOR CH1/10W 47K	1	
R2517		ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
R2518		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R2519		ERJ6GMYG432	M.RESISTOR CH1/10W 4.3K	1	
R2520		ERJ6GMYG103	M.RESISTOR CH1/10W 10K	1	
R2521-23		ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R2524		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R2525		EROS2CKG6800	M.RESISTOR 1/4W 680	1	
R2526		ERJ6GMYJ392	M.RESISTOR CH1/10W 3.9K	1	
R2527		ERJ6GMYJ105	M.RESISTOR CH1/10W 1M	1	
R2528		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R2529		ERJ6GMYJ392	M.RESISTOR CH1/10W 3.9K	1	
R2530		ERJ6GMYJ105	M.RESISTOR CH1/10W 1M	1	
R2531,32		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	2	
R2533		ERJ6GMYJ393	M.RESISTOR CH1/10W 39K	1	
R2534		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R2535		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R2536		ERJ6GMYJ824	M.RESISTOR CH1/10W 820K	1	
R2537		ERJ6GMYJ393	M.RESISTOR CH1/10W 39K	1	
R2538		ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R2539		ERJ6GMYJ681	M.RESISTOR CH1/10W 680	1	
R2540		ERJ6GMYJ105	M.RESISTOR CH1/10W 1M	1	
R2541		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	1	
R3001,02		ERJ6GMYJ750	M.RESISTOR CH1/10W 75	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3003		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R3004		ERJ6GMYJ683	M.RESISTOR CH1/10W 68K	1	
R3005		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3006,07		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R3008		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3009		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3010		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3011		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3012		ERJ6GMYG911	M.RESISTOR CH1/10W 910	1	
R3013		ERJ6GMYG102	M.RESISTOR CH1/10W 1K	1	
R3014		ERJ6GMYG471	M.RESISTOR CH1/10W 470	1	
R3015		ERJ6GMYG102	M.RESISTOR CH1/10W 1K	1	
R3016		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3017		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3018		ERJ6GMYJ392	M.RESISTOR CH1/10W 3.9K	1	
R3019		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R3021		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3022		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R3023		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R3024		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	1	
R3025		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R3026,27		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R3301		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3302		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R3303		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3304		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R3305		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3306		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R3307		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3308		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3310		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3322		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R3323		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R3324		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3325,26		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R3327		ERJ6GMYJ821	M.RESISTOR CH1/10W 820	1	
R3328		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3333		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3334		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3335		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3336,37		ERJ6GMYJ681	M.RESISTOR CH1/10W 680	2	
R3338		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3339		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3340		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3341		ERJ6GMYJ563	M.RESISTOR CH1/10W 56K	1	
R3342		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R3345-47		ERJ6GMYJ821	M.RESISTOR CH1/10W 820	3	
R3352		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3353		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3401		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3402		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R3403		ERJ6GMYG361	M.RESISTOR CH1/10W 360	1	
R3404		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3405		ERJ6GMYG123	M.RESISTOR CH1/10W 12K	1	
R3406		ERJ6GMYG512	M.RESISTOR CH1/10W 5.1K	1	
R3407		ERJ6GMYG272	M.RESISTOR CH1/10W 2.7K	1	
R3408		ERJ6GMYG302	M.RESISTOR CH1/10W 3K	1	
R3409		ERJ6GMYG821	M.RESISTOR CH1/10W 820	1	
R3410		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3411-13		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	3	
R3415		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3417		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3422		ERJ6GMYG333	M.RESISTOR CH1/10W 33K	1	
R3423		ERJ6GMYG683	M.RESISTOR CH1/10W 68K	1	
R3424		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3425		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R3426		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R3427		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3428		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R3429		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3430		ERJ6GMYJ823	M.RESISTOR CH1/10W 82K	1	
R3431		ERJ6GMYG821	M.RESISTOR CH1/10W 820	1	
R3433		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3434		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3435		ERJ6GMYG302	M.RESISTOR CH1/10W 3K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3436	ERJ6GMYG272	M.RESISTOR CH1/10W 2.7K	1	
R3437	ERJ6GMYG512	M.RESISTOR CH1/10W 5.1K	1	
R3438	ERJ6GMYG123	M.RESISTOR CH1/10W 12K	1	
R3441	ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R3442	ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3443	ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R3444,45	ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	2	
R3446,47	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R3463	ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3464	ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3465	ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3466	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3467	ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R3468,69	ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	2	
R3470	ERJ6GMYG123	M.RESISTOR CH1/10W 12K	1	
R3471	ERJ6GMYG512	M.RESISTOR CH1/10W 5.1K	1	
R3472	ERJ6GMYG272	M.RESISTOR CH1/10W 2.7K	1	
R3473	ERJ6GMYG302	M.RESISTOR CH1/10W 3K	1	
R3474	ERJ6GMYG821	M.RESISTOR CH1/10W 820	1	
R3475	ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3476	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3477,78	ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R3479	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3501	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3502	ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3503	ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3504,05	ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R3506	ERJ6GMYJ104	M.RESISTOR CH1/10W 1M	1	
R3507	ERJ6GMYG103	M.RESISTOR CH1/10W 10K	1	
R3508	ERJ6GMYG332	M.RESISTOR CH1/10W 3.3K	1	
R3509-11	ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	3	
R3513,14	ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	2	
R3515	ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3516	ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3517	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3518	ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3519	ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3520	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3521	ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3522	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3523	ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3524	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3525	ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R3526	ERJ6GMYJ470	M.RESISTOR CH1/10W 47	1	
R3601	ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3602	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3603	ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3604	ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3605	ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R3606	ERJ6GMYJ821	M.RESISTOR CH1/10W 820	1	
R3607-12	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	6	
R3613	ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R3614	ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3615	ERJ6GMYJ681	M.RESISTOR CH1/10W 680	1	
R3616	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3901-05	ERJ6GMYJ750	M.RESISTOR CH1/10W 75	5	
R3906	ERDS1TJ750	C.RESISTOR 1/2W 75	1	
R3908,09	ERJ6GMYJ750	M.RESISTOR CH1/10W 75	2	
R3910,11	ERJ6GMYJ471	M.RESISTOR CH1/10W 470	2	
R3913	ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
R3914	ERJ6GMYJ750	M.RESISTOR CH1/10W 75	1	
R3915	ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R3916,17	ERDS2TJ181	C.RESISTOR 1/4W 180	2	
R3926	ERJ6GMYJ222	M.RESISTOR CH1/10W 1K	1	
R3927,28	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R3929	ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3930	ERJ6GMYJ112	M.RESISTOR CH1/10W 1.1K	1	
R3931	ERJ6GMYJ123	M.RESISTOR CH1/10W 12K	1	
R3932	ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R3933	ERJ6GMYJ104	M.RESISTOR CH1/10W 1M	1	
R3934	ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R3935	ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3936	ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R3938	ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3945	ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3946	ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
R3950,51	ERJ6GMYJ331	M.RESISTOR CH1/10W 330	2	
R3953	ERDS2TJ562	M.RESISTOR CH1/10W 5.6K	1	
R3954	ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3955	ERJ6GMYJ123	M.RESISTOR CH1/10W 12K	1	
R3956	ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R3957-60	ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	4	
R3961	ERJ6GMYJ750	M.RESISTOR CH1/10W 75	1	
R3962	ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3963	ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3964	ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R3965	ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3966	ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3967	ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3968	ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4001,02	ERDS2TJ680	C.RESISTOR 1/4W 68	2	
R4003-08	ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	6	
R4009	ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R4010	ERJ6GMYG433	M.RESISTOR CH1/10W 43K	1	
R4011	ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R4012	ERJ6GMYJ242	M.RESISTOR CH1/10W 2.4K	1	
R4013	ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R4014	ERJ6GMYG100	M.RESISTOR CH1/10W 10	1	
R4015	ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R4020	ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R4021	ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R4022	ERJ6GMYJ273	M.RESISTOR CH1/10W 27K	1	
R4028	ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R4029,30	ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R4033	ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
R4034	ERJ6GMYG393	M.RESISTOR CH1/10W 39K	1	
R4035	ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
R4036	ERJ6GMYG393	M.RESISTOR CH1/10W 39K	1	
R4501,02	ERJ3GEY0R00	M.RESISTOR CH1/16W 0	2	
R4503	ERJ3GEYG223	M.RESISTOR CH1/16W 22K	1	
R4504,05	ERJ3GEYJ393	M.RESISTOR CH1/16W 39K	2	
R4506,07	ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	2	
R4508	ERJ3GEYG224	M.RESISTOR CH1/16W 220K	1	
R4509	ERJ3GEYJ622	M.RESISTOR CH1/16W 6.2K	1	
R4511	ERJ3GEYG273	M.RESISTOR CH1/16W 27K	1	
R4512	VRE0071E163	M.RESISTOR CH1/16W 16K	1	
R4513	ERJ3GEYG103	M.RESISTOR CH1/16W 10K	1	
R4514,15	ERJ3GEYJ223	M.RESISTOR CH1/16W 22K	2	
R4518,19	ERJ3GEY0R00	M.RESISTOR CH1/16W 0	2	
R4522	ERJ3GEYJ225	M.RESISTOR CH1/16W 2.2M	1	
R4527	VRE0071E333	M.RESISTOR CH1/16W 33K	1	
R4528	VRE0071E153	M.RESISTOR CH1/16W 15K	1	
R4529	ERJ3GEYG562	M.RESISTOR CH1/16W 5.6K	1	
R4530	ERJ3GEYJ334	M.RESISTOR CH1/16W 330K	1	
R4534	ERJ3GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R4535	ERJ3GEYJ104	M.RESISTOR CH1/16W 100K	1	
R4539	ERJ3GEYJ104	M.RESISTOR CH1/16W 100K	1	
R4541	ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R4542	ERJ3GEYJ222	M.RESISTOR CH1/16W 2.2K	1	
R4543	ERJ3GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R4551,52	ERJ3GEYJ393	M.RESISTOR CH1/16W 39K	2	
R4553,54	ERJ3GEYJ273	M.RESISTOR CH1/16W 27K	2	
R4558	ERJ3GEYG224	M.RESISTOR CH1/16W 220K	1	
R4561	ERJ3GEYG273	M.RESISTOR CH1/16W 27K	1	
R4562	VRE0034E10C	M.RESISTOR CH1/10W	1	
R4563	ERJ3GEYG272	M.RESISTOR CH1/16W 2.7K	1	
R4568,69	ERJ3GEYJ273	M.RESISTOR CH1/16W 27K	2	
R4573	ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R4577	ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	1	
R4578	VRE0071E473	M.RESISTOR CH1/16W 47K	1	
R4581	ERJ3GEYJ104	M.RESISTOR CH1/16W 100K	1	
R4583	ERJ3GEYJ102	M.RESISTOR CH1/16W 1K	1	
R4584	ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R4585	ERJ3GEY0R00	M.RESISTOR CH1/16W 0	1	
R4586	ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R4587,88	ERJ3GEYJ273	M.RESISTOR CH1/16W 27K	2	
R4591	ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	1	
R4592	ERJ3GEYJ563	M.RESISTOR CH1/16W 56K	1	
R4593	ERJ3GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R4594	ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4596		ERJ3GEYG103	M.RESISTOR CH1/16W 10K	1	
R4597		ERJ3GEYJ103	M.RESISTOR CH1/16W 22K	1	
R4598,99		ERJ3GEYG223	M.RESISTOR CH1/16W 22K	2	
R4603		ERJ3GEYG183	M.RESISTOR CH1/16W 18K	1	
R4606		ERJ3GEYJ562	M.RESISTOR CH1/16W 5.6K	1	
R4610		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	1	
R4611		ERJ3GEYJ101	M.RESISTOR CH1/16W 100	1	
R4612		ERJ3GEYJ331	M.RESISTOR CH1/16W 330	1	
R4613		ERJ3GEYJ394	M.RESISTOR CH1/16W 390K	1	
R4615		ERJ3GEYJ133	M.RESISTOR CH1/16W 13K	1	
R4616		ERJ3GEYJ105	M.RESISTOR CH1/16W 1M	1	
R4638		ERJ3GEY0R00	M.RESISTOR CH1/16W 0	1	
R4649		ERJ3GEYJ470	M.RESISTOR CH1/16W 47	1	
R4651		ERJ3GEYJ101	M.RESISTOR CH1/16W 100	1	
R4652		ERJ3GEYJ223	M.RESISTOR CH1/16W 22K	1	
R4653		ERJ3GEYJ221	M.RESISTOR CH1/16W 220	1	
R4654		ERJ3GEYJ223	M.RESISTOR CH1/16W 22K	1	
R4655		ERJ3GEYJ562	M.RESISTOR CH1/16W 5.6K	1	
R4656		ERJ3GEYG243	M.RESISTOR CH1/16W 24K	1	
R4657		ERJ3GEYJ392	M.RESISTOR CH1/16W 3.9K	1	
R4666		ERJ3GEYJ471	M.RESISTOR CH1/16W 470	1	
R4671		ERJ3GEYG103	M.RESISTOR CH1/16W 10K	1	
R4701		ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	1	
R4702		ERJ6GMYJ821	M.RESISTOR CH1/10W 820	1	
R4703		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R4704,05		ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	2	
R4706		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R4707		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R4708		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4709		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R4710		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4711		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R4712		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R4713		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4714		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R4715		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R4716		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4717		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R4718		ERJ6GMYG753	M.RESISTOR CH1/10W 75K	1	
R4719		ERJ6GMYG203	M.RESISTOR CH1/10W 20K	1	
R4720,21		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	2	
R4722		ERJ6GMYJ104	M.RESISTOR CH1/10W 1M	1	
R4723		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R4724,25		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	2	
R4726		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R4901,02		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	2	
R4903,04		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	2	
R4905,06		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	2	
R4907,08		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	2	
R4909,10		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R4915-18		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	4	
R4921		ERJ6GMYG163	M.RESISTOR CH1/10W 16K	1	
R4922,23		ERJ6GMYG433	M.RESISTOR CH1/10W 43K	2	
R4924		ERJ6GMYG163	M.RESISTOR CH1/10W 16K	1	
R4925		ERJ6GMYG473	M.RESISTOR CH1/10W 47K	1	
R4926		ERJ6GMYG223	M.RESISTOR CH1/10W 22K	1	
R4927,28		ERJ6GMYJ104	M.RESISTOR CH1/10W 1M	2	
R4929		ERJ6GMYG223	M.RESISTOR CH1/10W 22K	1	
R4930		ERJ6GMYG473	M.RESISTOR CH1/10W 47K	1	
R4931		ERJ6GMYJ104	M.RESISTOR CH1/10W 1M	1	
R6001		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6002,03		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	2	
R6004		EROS2CKG2000	M.RESISTOR 1/4W 200	1	
R6005		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R6006		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6007-09		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	3	
R6010,11		ERJ6GMYG223	M.RESISTOR CH1/10W 22K	2	
R6012		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6013		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6015,16		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6017		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6018		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6019		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6020,21		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6022-24		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	3	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6025		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R6027		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R6028		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
R6029		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R6030		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R6031		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R6032,33		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	2	
R6034		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6035		ERJ6GMYJ104	M.RESISTOR CH1/10W 1M	1	
R6036		ERJ6GMYJ123	M.RESISTOR CH1/10W 12K	1	
R6037,38		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R6039,40		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	2	
R6041		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	1	
R6042		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	1	
R6044-49		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	6	
R6050		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6051		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	1	
R6052		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R6053		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R6054		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
R6055		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R6056,57		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	2	
R6058,59		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6060		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6061,62		ERJ6GMYJ683	M.RESISTOR CH1/10W 68K	2	
R6063		ERJ6GMYJ224	M.RESISTOR CH1/10W 220K	1	
R6064		ERJ6GMYJ104	M.RESISTOR CH1/10W 1M	1	
R6066		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6067		ERJ6GMYJ181	M.RESISTOR CH1/10W 180	1	
R6068-70		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	3	
R6071		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R6074		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R6075		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6076		ERJ6GMYJ563	M.RESISTOR CH1/10W 56K	1	
R6077		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6078		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6079		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6081		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R6082		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6083-86		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	4	
R6087,88		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	2	
R6089,90		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6091		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6092,93		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	2	
R6094,95		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	2	
R6096		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R6097,98		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6099		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R6100		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6101		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6102,03		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	2	
R6104		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
R6106,07		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R6108		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6109		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R6110		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6112		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6114		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6116		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6118		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6120		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6122		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6123		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R6124		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6125		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R7302		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R7303		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R7304		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R7305		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R7306		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R7307		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R7308		ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
R7309		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R7310		ERJ6GEYJ474	M.RESISTOR CH1/10W 470K	1	
R7311		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R7312	ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R7313	ERJ6GEYJ824	M.RESISTOR CH1/10W 820K	1	
R7314,15	ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	2	
R7316	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R7317	ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R7318	ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R7321	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7322	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R7323	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7324,25	ERJ6GEYJ271	M.RESISTOR CH1/10W 270	2	
R7329	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R7330	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R7334-37	ERJ6GEYJ471	M.RESISTOR CH1/10W 470	4	
R7338	ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R7339	ERJ6GEYJ330	M.RESISTOR CH1/10W 33	1	
R7340	ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R7341	ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R7342	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7345	ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R7346	ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R7347	ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R7348	ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R7349	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R7351-53	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R7354,55	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R7403	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R7407,08	ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R7410-12	ERJ6GMYJ221	M.RESISTOR CH1/10W 220	3	
R7413	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R7414-19	ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	6	
R7420	ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R7421-23	ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	3	
R7425	ERJ6GMYJ154	M.RESISTOR CH1/10W 150K	1	
R7426	ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R7427	ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R7428	ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R7429	ERJ6GMYJ151	M.RESISTOR CH1/10W 150	1	
R7430	ERJ6GMYJ104	M.RESISTOR CH1/10W 1M	1	
R7431-34	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	4	
R7435	ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R7436	ERG1SJ222	M.RESISTOR 1W 2.2K	1	
R7437,38	ERJ6GMYJ683	M.RESISTOR CH1/10W 68K	2	
R7440,41	ERJ6GMYJ151	M.RESISTOR CH1/10W 150	2	
RX3401	EXBF8E102J	COMBI.R-R	1	
SW3901	VSS0385	SWITCH	1	<R>
T0703	EQV5EC071A	TRANSFORMER	1	
T0704	EQV5EC072A	TRANSFORMER	1	
T4701	VLT0695	TRANSFORMER	1	
T4702	VLT0696	TRANSFORMER	1	
T7301	EIR7QG001B	TRANSFORMER	1	
T7302,03	EIL7QH012Q	TRANSFORMER	2	
T7304	EIS5EC017A	TRANSFORMER	1	
T7305	EQS5EC033A	TRANSFORMER	1	
TR	VJS3481	CONNECTOR (FEMALE)	1	
VR301	EVN49CA00B23	V.RESISTOR 2K	1	
VR302	EVN49CA00B13	V.RESISTOR 1K	1	
VR303	EVNCBAA00B13	V.RESISTOR 1K	1	
VR304	EVN49CA00B13	V.RESISTOR 1K	1	
VR0701	EVNCBAA00B24	V.RESISTOR 20K	1	
VR801,02	EVMEASA00B13	V.RESISTOR 1K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
VR803	EVMEASA00B14	V.RESISTOR 10K	1	
VR804	EVN49CA00B53	V.RESISTOR 5K	1	
VR2001-05	EVNCYAA03B54	V.RESISTOR 50K	5	
VR3001-03	EVNCYAA03B23	V.RESISTOR 2K	3	
VR3301	EVMEASA00B24	V.RESISTOR 20K	1	
VR3302	EVN49CA00B54	V.RESISTOR 50K	1	
VR3304,05	EVN49CA00B52	V.RESISTOR 500	2	
VR3307	EVN49CA00B54	V.RESISTOR 50K	1	
VR3901	EVMEASA00B24	V.RESISTOR 20K	1	
VR4002	EVNCYAA03B25	V.RESISTOR 200K	1	
VR4501	EVMECSA00B53	V.RESISTOR 5K	1	
VR4502	EVMEASA00BY4	V.RESISTOR	1	
VR4507	EVMEASA00BY4	V.RESISTOR	1	
VR4509	EVMECSA00BY3	V.RESISTOR	1	
VR4512	EVNCBAA00B52	V.RESISTOR	1	
VR4550	EVMECSA00B14	V.RESISTOR 10K	1	
VR4551,52	EVMEASA00B55	V.RESISTOR 500K	2	
VR7301	EVMEASA00B14	V.RESISTOR 10K	1	
VR7326	EVMEASA00B52	V.RESISTOR 500	1	
VR7328	EVMEASA00B52	V.RESISTOR 500	1	
VR7340	EVNCBAA00B14	V.RESISTOR 10K	1	
VR7342	EVNCBAA00B53	V.RESISTOR 5K	1	
VR7344	EVNCBAA00B14	V.RESISTOR 10K	1	
X0701	VLF1178	FILTER	1	<R>
X0703	EFCS5R5MW5	FILTER	1	<R>
X0704	VLF1035	FILTER	1	<R>
X801	VSX0406	CRYSTAL OSCILLATOR	1	<R>
X3302	EF0GC3584A5	CRYSTAL OSCILLATOR	1	<R>
X3501	VSX0574	CRYSTAL OSCILLATOR	1	<R>
X6001	VSX0583	CRYSTAL OSCILLATOR	1	<R>
X6002	EF0EC7374A4E	CERAMIC RESONATOR	1	<R>
X7001	VSQ0565	CRYSTAL OSCILLATOR	1	<R>
X7301,02	EFCS5R5MS5	FILTER	2	<R>
X7303,04	EFCS5R74MS5	FILTER	2	<R>
X7305	EL85A016	FILTER	1	<R>
X7401	VSX0561	CRYSTAL OSCILLATOR	1	<R>
		MISCELLANEOUS		
	VJH0827	RF ANT TERMINAL L PLATE	1	
	ENG47210G	TUNER	1	
	VEE8682	WIRE CABLE	1	
	VEE8683	WIRE CABLE	1	
	VEE8688	WIRE CABLE	1	(P2001-2902)
	VEE9001	WIRE CABLE	1	(POWER TR. -P2003)
	VEE8685	WIRE CABLE	1	(P4002-P6502)
	VEE8686	WIRE CABLE	1	(P6003-7504)
	VEE8837	WIRE CABLE	1	(P3002-P7503)
	VWJ0775	FLAT CABLE	1	(P2004-P1507)
	VWJ0776	FLAT CABLE	1	(P3001-P501)
	VWJ0778	FLAT CABLE	1	(P7401-P7501)
	VWJ0801	FLAT CABLE	1	(P7402-P7502)
	VMA6768	EARTH ANGLE	1	
	VJF1031	CLAMPER	1	
	XTV3+10J	SCREW	2	
	VEE9669	WIRE CABLE	1	(P4003-P1509)
	XTV3+8J	SCREW	1	
	VEE8834	WIRE CABLE	1	(P3003-P9001)
	VEE8835	WIRE CABLE	1	(P6004-P9002)
	VEE9262	WIRE CABLE	1	(P3801-P3004)
	VEJ1438	I/O JACK PLATE	1	
	XTV3+8GFZ	SCREW	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP06B45A	P.C.BOARD W/COMPONENT		
		VR		
C6501,02	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	2	
C6503,04	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6505	ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C6506	VCEA1HAC3R3	E.CAPACITOR 50V 3.3U	1	
C6507	ECEA1AKA330	E.CAPACITOR 10V 33U	1	
C6508	ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C6509	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6510	ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6511-14	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C6515,16	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C6518	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C6519	ECKF1H472KB	C.CAPACITOR 50V 4700P	1	
C6701	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6702	ECUM1E333KBN	C.CAPACITOR CH 25V 0.033U	1	
C6703	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
D6701	PD410TN1	DIODE	1	<R>
IC6501	VCR0172	IC	1	<R>
IC6701	UPC2800AGR	IC	1	<R>
IR6501	VEK6407	IR RECEIVER	1	
L6501,02	ELESE471KA	COIL 470UH	2	
L6503,04	ELESE221KA	COIL 220UH	2	
L6506,07	ELESE101KA	COIL 100UH	2	
LB6501	VLP0145	COIL	1	
LB6502	VLP0150	COIL	1	
P6502	VJP1251T	CONNECTOR (MALE) 11P	1	
PS6501,02	VJS3405A011A	CONNECTOR (FEMALE) 11P	2	
R6501	ERJ6GEYG332	M.RESISTOR CH1/10W 3.3K	1	
R6502	ERJ6GEYG331	M.RESISTOR CH1/10W 330	1	
R6503,04	ERJ6GEYG271	M.RESISTOR CH1/10W 270	2	
R6505	ERJ6GEYG332	M.RESISTOR CH1/10W 3.3K	1	
R6506	ERJ6GEYG331	M.RESISTOR CH1/10W 330	1	
R6508,09	ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	2	
R6511	ERDS2TYJ470	C.RESISTOR 1/4W 47	1	
R6701	ERJ6ENF1363	M.RESISTOR CH1/10W 36K	1	
S6501,02	EVQ11409K	SWITCH	2	
VR6501	EWAKABX15C23	V.RESISTOR 2K	1	
VR6502	EWAKFKX15B24	V.RESISTOR 20K	1	
VR6503	EWANYJX1054J	V.RESISTOR	1	
		MISCELLANEOUS		
	VYC0599	REC VR COVER U.	1	
	VGU4495	REC VR KNOB	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP07739X	P.C.BOARD W/COMPONENT		
		TIMER C.B.A.		
C1701	ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C1702	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1703	ECKD2H471KB	C.CAPACITOR 500V 470P	1	
C1704	ECEA1VKA220	E.CAPACITOR 35V 22U	1	
C1705	ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1706	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7501	ECRHC030E11	TRIMMER 3P	1	
C7502	ECEA0JKS330	E.CAPACITOR 6.3V 47U	1	
C7503	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7504	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C7505,06	ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	2	
C7507,08	ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	2	
C7509	ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C7510	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C7511	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7512	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7513	ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C7514,15	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7517	ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C7518	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7519-30	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	12	
C7531,32	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7533-36	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	4	
C7537	ECEA1HKA220	E.CAPACITOR 50V 22U	1	
C7538	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7539	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
D1701	MA1270-H	DIODE	1	<R>
D1702	MA185	DIODE	1	<R>
D7501	MA3075	DIODE	1	<R>
D7502-06	MA221	DIODE	5	<R>
D7510	MA221	DIODE	1	<R>
D7512	MA221	DIODE	1	<R>
D7514	MA221	DIODE	1	<R>
D7517,18	MA221	DIODE	2	<R>
D7520	MA221	DIODE	1	<R>
D7522	MA221	DIODE	1	<R>
D7526	MA221	DIODE	1	<R>
D7531,32	MA221	DIODE	2	<R>
D7534,35	MA221	DIODE	2	<R>
D7546-53	MA221	DIODE	8	<R>
D7556,57	LN81RCPHL	LED	2	<R>
D7559,60	LN81RCPHL	LED	2	<R>
D7562,63	MA221	DIODE	2	<R>
DP7501	VSL0276-B	DISPLAY TUBE	1	
IC7501	M37502V4CF	IC	1	<R>
IC7502	PST7026	IC	1	<R>
IC7503	XLJ9021B	IC	1	<R>
IC7504	PST7043	IC	1	<R>
IC7505	BA6810S	IC	1	<R>
K7502	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
K7504,05	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	2	
L7501	VLQEL05S101K	COIL 100UH	1	
L7502	VLQ0188J330	COIL 33UH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P7501,02		VJS3537A020G	CONNECTOR	2	
P7503		VJP3234B010	CONNECTOR (MALE) 10P	1	
P7504		VJP1246T	CONNECTOR (MALE) 6P	1	
P7505,06		VJS2183	CONNECTOR (FEMALE)	2	
PP7501,02		VJP3405A011W	CONNECTOR (MALE) 11P	2	
Q1701		2SD1994AVT	TRANSISTOR	1	<R>
Q7501,02		MSD601	TRANSISTOR	2	<R>
QR7501,02		MRN2403	TRANSISTOR-RESISTOR	2	<R>
QR7503		MRN2402	TRANSISTOR-RESISTOR	1	<R>
QR7506		MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR7507		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR7508-11		MRN2404	TRANSISTOR-RESISTOR	4	<R>
QR7512-14		MRN2403	TRANSISTOR-RESISTOR	3	<R>
R1701		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R1702		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R1703		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R7501,02		ERJ6GEYJ820	M.RESISTOR CH1/10W 82	2	
R7503		ERJ6GEYG223	M.RESISTOR CH1/10W 22K	1	
R7504		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R7505-07		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	3	
R7508		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R7509		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R7510		ERJ6GEYK106	M.RESISTOR CH1/10W 10M	1	
R7511		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R7512,13		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R7514-16		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	3	
R7517,18		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R7519-22		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	4	
R7525,26		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	2	
R7528,29		ERJ6GMZOR00	M.RESISTOR CH1/10W 0	2	
R7531-41		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	11	
R7542-56		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	15	
R7557-59		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	3	
R7560-62		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R7564		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R7565		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R7566		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R7567		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R7568		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7569		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R7570		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R7571		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7572		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R7573		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7574		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
RX7501,02		EXBF6E104J	COMBI.R-R	2	
RX7503		EXBF8E104J	COMBI.R-R	1	
SW7502,03		ESD172355	SWITCH	2	<R>
SW7504-07		ESD172255	SWITCH	4	<R>
SW7508,09		ESD172355	SWITCH	2	<R>
SW7510		ESD172255	SWITCH	1	<R>
T1701		ETE13K80AY	TRANSFORMER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR4004		EVNCBAA00B53	V.RESISTOR 5K	1	
X7501		VSX0506	CRYSTAL OSCILLATOR	1	<R>
X7502		VSX0094	CRYSTAL OSCILLATOR	1	<R>
			MISCELLANEOUS		
		VMD0504	HOLDER	4	
		VJF1043	VR HOLDER	1	
		VEX0235	P.C.BOARD W/COMPONENT		
			CYLINDER DRIVE		
C2901-03		ECEA1VSN2R2	E.CAPACITOR 35V 2.2U	3	
C2904-06		ECUM1E104KBM	C.CAPACITOR CH 25V 0.1U	3	
C2907		ECUM1E683KBM	C.CAPACITOR CH 25V 0.068U	1	
C2908		ECUM1E473KBM	C.CAPACITOR CH 25V 0.047U	1	
C2910		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C2912		ECEA0JKS220	E.CAPACITOR 6.3V 22U	1	
IC2901		AN3815K	IC	1	<R>
P2901		VJP2603W	CONNECTOR (MALE)	1	
P2902		VJP1232T	CONNECTOR (MALE) 5P	1	
R2901		ERX12SJR47	M.RESISTOR CH 1/2W 0.47	1	
			MISCELLANEOUS		
		VMA9138	MAIN HOLDER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP03A53A	P.C.BOARD W/COMPONENT		
			TBC		
C9001		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9002		ECWM1H473JZ	F.CAPACITOR 50V 0.047U	1	
C9003		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C9004		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C9005		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9006		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C9007		ECWM1H473JZ	F.CAPACITOR 50V 0.047U	1	
C9008		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9009		ECWM1H473JZ	F.CAPACITOR 50V 0.047U	1	
C9010		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C9011		ECWM1H333KZ	F.CAPACITOR 50V 0.033U	1	
C9012		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C9013		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C9014		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C9015		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9016		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C9017		ECQB1H223KF	P.CAPACITOR 50V 0.022U	1	
C9018		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C9019		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9020,21		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	2	
C9022		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C9023		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9024		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C9025		ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C9026		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C9027		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9028		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9029		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9030		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C9031,32		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C9033		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C9034		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C9035		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9036,37		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	2	
C9038		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9039		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C9040		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9041		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9042		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9043-50		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	8	
C9051		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C9052		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9054		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9055		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C9056		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9057		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C9058		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9059		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C9060		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C9061		ECUM1H020CCN	C.CAPACITOR CH 50V 2P	1	
C9062		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C9063		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C9064		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9065		ECUM1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C9066		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9067-70		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C9071		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9072		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9073		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9076		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9077		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C9078		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9079		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9080		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9081,82		ECEA0JKA470	E.CAPACITOR 6.3V 47U	2	
C9083,84		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C9085,86		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C9087		ECEA1CKA100	E.CAPACITOR 16V 10U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C9088		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9089		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9098-00		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C9101		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C9102		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9103		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C9501		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9502,03		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C9504		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C9505		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9506		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C9507,08		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C9509,10		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C9511		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C9512		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C9513		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C9514		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C9515		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9516		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C9517		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C9518		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C9519		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9520-22		ECEA1CKA100	E.CAPACITOR 16V 10U	3	
C9523,24		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C9525,26		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
D9501		1SS254	DIODE	1	<R>
FL9001-05		VLF0633	FILTER	5	
FL9006		VLF0634	FILTER	1	
FL9007		ELKAW103EB	FILTER	1	
FL9008		VLF0634	FILTER	1	
FL9009		VLF0839	FILTER	1	
FL9010		VLF0838	FILTER	1	
FL9011		VLF0874	FILTER	1	
FL9012		VLF0855	FILTER	1	
FL9013		ELB4P034	FILTER	1	
FL9014		VLF0875	FILTER	1	
FL9015-18		VLF0634	FILTER	4	
FL9019-21		VLF0630	FILTER	3	
FL9022-26		ELKAW103EB	FILTER	5	
FL9501		ELB4H054	FILTER	1	
IC9001		AN3942SB	IC	1	<R>
IC9002		AN3496S	IC	1	<R>
IC9003		MN74HC4066S	IC	1	<R>
IC9004		HA19211BNT	IC	1	<R>
IC9006		AN3915S	IC	1	<R>
IC9007		SC371020FU	IC	1	<R>
IC9008		SC371026FU	IC	1	<R>
IC9501		CXL1009P	IC	1	<R>
IC9502		AN78L09	IC	1	<R>
IC9503		M52055FP	IC	1	<R>
K9001		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K9004		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K9006,07		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
K9010,11		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
K9014		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K9016		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K9018,19		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
L9001		VLQEL05S220J	COIL 22UH	1	
L9002,03		ELESE101KA	COIL 100UH	2	
L9004		ELESN680KA	COIL 68UH	1	
L9005		ELESN270KA	COIL 27UH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L9006	VLQ0188J2R2	COIL 2.2UH	1	
L9007	ELESE101KA	COIL 100UH	1	
L9008,09	VLQ0188J2R2	COIL 2.2UH	2	
L9010	VLQ0188J6R8	COIL 6.8UH	1	
L9011-14	VLQ0188J2R2	COIL 2.2UH	4	
L9018,19	VLP0054	COIL	2	
L9024	VLP0054	COIL	1	
L9501	ELESE101KA	COIL 100UH	1	
L9502	VLP0054	COIL	1	
L9503	VLP0053	COIL	1	
L9504,05	ELESE101KA	COIL 100UH	2	
L9506	VLP0054	COIL	1	
P9001	VJP1393T	CONNECTOR (MALE)	1	
P9002	VJP1235T	CONNECTOR (MALE)	1	
Q9001	MSB709	TRANSISTOR	1	<R>
Q9003,04	MSD601	TRANSISTOR	2	<R>
Q9006-09	MSD601	TRANSISTOR	4	<R>
Q9010,11	MSB709	TRANSISTOR	2	<R>
Q9012	MSD601	TRANSISTOR	1	<R>
Q9013	MSB709	TRANSISTOR	1	<R>
Q9014	2SA1022	TRANSISTOR	1	<R>
Q9015	MSD601	TRANSISTOR	1	<R>
Q9016	MSC2295	TRANSISTOR	1	<R>
Q9017	MSD601	TRANSISTOR	1	<R>
Q9018	MSB709	TRANSISTOR	1	<R>
Q9019	MSD601	TRANSISTOR	1	<R>
Q9020	MSC2295	TRANSISTOR	1	<R>
Q9021	MSD601	TRANSISTOR	1	<R>
Q9022	MSB709	TRANSISTOR	1	<R>
Q9023	MSD601	TRANSISTOR	1	<R>
Q9024	MSB709	TRANSISTOR	1	<R>
Q9025	MSD601	TRANSISTOR	1	<R>
Q9026,27	MSB709	TRANSISTOR	2	<R>
Q9501,02	MSC2295	TRANSISTOR	2	<R>
Q9503	MSB709	TRANSISTOR	1	<R>
Q9504	MSD601	TRANSISTOR	1	<R>
Q9505	MSB709	TRANSISTOR	1	<R>
Q9506	MSD601	TRANSISTOR	1	<R>
Q9507	MSB709	TRANSISTOR	1	<R>
QR9001	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR9004	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR9007	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR9010	MRN1404	TRANSISTOR-RESISTOR	1	<R>
R9001-04	ERJ6GMYJ101	M.RESISTOR CH1/10W 100	4	
R9005	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9006	ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R9007,08	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R9009	ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R9010-17	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	8	
R9021-23	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	3	
R9024	ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R9027-29	ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	3	
R9030	ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	1	
R9031	ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R9032	ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R9037	ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R9038	ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R9039	ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9040	ERJ6GMYJ681	M.RESISTOR CH1/10W 680	1	
R9041	ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R9042	ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R9043	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9044	ERJ6GMYJ681	M.RESISTOR CH1/10W 680	1	
R9045	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9046	ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R9047,48	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R9049	ERJ6GMYJ683	M.RESISTOR CH1/10W 68K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R9050	ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R9051,52	ERJ6GMYJ683	M.RESISTOR CH1/10W 68K	2	
R9053	ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R9054,55	ERJ6GMYJ683	M.RESISTOR CH1/10W 68K	2	
R9056	ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9057	ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R9058	ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R9059,60	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R9061	ERJ6GMYJ681	M.RESISTOR CH1/10W 680	1	
R9062	ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R9063	ERJ6GMYJ202	M.RESISTOR CH1/10W 2K	1	
R9064	ERJ6GMYJ132	M.RESISTOR CH1/10W 1.3K	1	
R9065	ERJ6GMYJ432	M.RESISTOR CH1/10W 4.3K	1	
R9066	ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	1	
R9067	ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R9068-70	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	3	
R9071	ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R9072	ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R9073	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9074	ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R9075	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9076	ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R9077	ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R9078	ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R9079	ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R9080,81	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R9082	ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R9084	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9087	ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9088	ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R9093	ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9094	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9095	ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R9096	ERJ6GMYJ123	M.RESISTOR CH1/10W 12K	1	
R9097	ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R9098	ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R9099	ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R9100,01	ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R9104	ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9105	ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R9106	ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R9107	ERJ6GMYJ392	M.RESISTOR CH1/10W 3.9K	1	
R9108,09	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R9501,02	ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	2	
R9503,04	ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R9505	ERJ6GMYJ105	M.RESISTOR CH1/10W 1M	1	
R9506	ERJ6GMYJ224	M.RESISTOR CH1/10W 220K	1	
R9507	ERJ6GMYJ681	M.RESISTOR CH1/10W 680	1	
R9508	ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R9509-13	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	5	
R9514,15	ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	2	
R9516	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9517,18	ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	2	
R9519	ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R9520	ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
VR9001	EVMF6SA00B23	V.RESISTOR 2K	1	
VR9002	EVNCYAA03B54	V.RESISTOR 500K	1	
VR9003	EVMF6SA00B13	V.RESISTOR 1K	1	
VR9004	EVNCYAA03B24	V.RESISTOR 20K	1	
VR9005,06	EVMF6SA00B14	V.RESISTOR 10K	2	
VR9007	EVMF6SA00B13	V.RESISTOR 1K	1	
VR9501	EVMF6SA00B23	V.RESISTOR 2K	1	
X9002	VSX0617	CRYSTAL OSCILLATOR	1	<R>
X9501	VSX0323	CRYSTAL OSCILLATOR	1	<R>
		MISCELLANEOUS		
	VSC4116	SHIELD CASE (MAIN)	1	
	VSC3620	SHIELD CASE (BOTTOM)	1	
	VSC3618	SHIELD CASE (TOP)	1	
	XTN3+6F	SCREW	4	
	VMX1921	SPACER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP03A63A	P.C.BOARD W/COMPONENT		
			VITC		
			CAPACITORS		
C3801		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3802		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3803		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3804		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3805		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3806		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3807		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3808,09		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C3810		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3811		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3812		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3813		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3814		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3815		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C3816		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3817		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3818		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3819,20		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	2	
C3821		ECWM1H682JZ	F.CAPACITOR 50V 6800P	1	
C3822		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3823		ECEA1AKA330	E.CAPACITOR 10V 33U	1	
C3824		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3825		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3826		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3827		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3828		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C3829		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C3830		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C3831		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3832		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C3833		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
D3801		1SS254	DIODE	1	<R>
IC3801		MN1870824H3A	IC	1	<R>
IC3802		PST7043	IC	1	<R>
IC3803		BA7062F	IC	1	<R>
IC3804		NJM2235MA	IC	1	<R>
IC3805		UPC311G2	IC	1	<R>
IC3806		AN3916	IC	1	<R>
IC3807		UPC393G2	IC	1	<R>
K3801,02		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	2	
K3804		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
L3801,02		ELESE101KA	COIL 100UH	2	
L3803		ELESE221KA	COIL 220UH	1	
P3801		VJP1393T	CONNECTOR (MALE)	1	
Q3801,02		MSD601	TRANSISTOR	2	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			RESISTORS		
R3801		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R3802		ERJ6GEYG123	M.RESISTOR CH1/10W 12K	1	
R3803,04		ERJ6GEYG103	M.RESISTOR CH1/10W 10K	2	
R3805		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3806		ERJ6GEYG242	M.RESISTOR CH1/10W 2.4K	1	
R3807		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3808		ERJ6GEYJ334	M.RESISTOR CH1/10W 330K	1	
R3809		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3810		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R3811		ERJ6GEYJ474	M.RESISTOR CH1/10W 470K	1	
R3812		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R3813		ERJ6GEYJ474	M.RESISTOR CH1/10W 470K	1	
R3814		ERJ6GEYG134	M.RESISTOR CH1/10W 130K	1	
R3815		ERJ6GEYG821	M.RESISTOR CH1/10W 820	1	
R3816		ERJ6GEYG182	M.RESISTOR CH1/10W 1.8K	1	
R3817		ERJ6GEYG822	M.RESISTOR CH1/10W 8.2K	1	
R3818		ERJ6GEYG362	M.RESISTOR CH1/10W 3.6K	1	
R3819,20		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R3821		ERJ6GEYG102	M.RESISTOR CH1/10W 1K	1	
R3822		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3823		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R3824		ERJ6GEYG333	M.RESISTOR CH1/10W 33K	1	
R3825		ERJ6GEYG103	M.RESISTOR CH1/10W 10K	1	
R3826-28		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	3	
R3829-31		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R3832,33		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R3834,35		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	2	
R3836		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3837		ERJ6GEYJ472	M.RESISTOR CH1/10W 4.7K	1	
R3838		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R3839		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R3840		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
VR3801		EVMEASA00B24	V.RESISTOR 20K	1	
X3801		VSX0389	CRYSTAL OSCILLATOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP05176G	P.C.BOARD W/COMPONENT		
			HEAD AMP		
			CAPACITORS		
C503		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C505-08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C509		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C510,11		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C512		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C513		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C514		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C515,16		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C517,18		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C519,20		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C521		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C523-25		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C526		VCEA0JAC221	E.CAPACITOR 6.3V 220U	1	
C527		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C531		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C532		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C533,34		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	2	
C535		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C536		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C537		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C538,39		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	2	
C540		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C551		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C552-54		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C555		ECEA0JPK221	E.CAPACITOR 6.3V 220U	1	
C556,57		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C559		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C560,61		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
C562,63		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C564		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C565		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C566		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C567		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C569		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
IC501		AN3336SB	IC	1	<R>
IC502		AN3370K	IC	1	<R>
IC551		BA7743FS	IC	1	<R>
K501		VLP0145	COIL	1	
K502		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K503,04		VLP0145	COIL	2	
K505		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K506		VLP0145	COIL	1	
K552		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L501-03		VLQ0540K330	COIL 33UH	3	
L504		VLQ0540J5R6	COIL 5.6UH	1	
L551,52		VLQ0540K330	COIL 33UH	2	
P501		VJS3537B020G	CONNECTOR (FEMALE)	1	
P502		VJS2603	CONNECTOR (FEMALE)	1	
Q501		MSB709	TRANSISTOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q502		MSD601	TRANSISTOR	1	<R>
QR501		MRN2404	TRANSISTOR-RESISTOR	1	<R>
			RESISTORS		
R501		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R502		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R503		ERJ6GMYG752	M.RESISTOR CH1/10W 7.5K	1	
R504		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R505		ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R506		ERJ6GMYJ392	M.RESISTOR CH1/10W 3.9K	1	
R507		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R508		ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R509-12		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	4	
R513		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R514		ERJ6GMYJ274	M.RESISTOR CH1/10W 270K	1	
R517		ERJ6GMYJ100	M.RESISTOR CH1/10W 10	1	
R518,19		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	2	
R520		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R521,22		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	2	
R523		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R524		VRE0034E182	M.RESISTOR CH 1/10W 1.8K	1	
R525		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R526		ERJ6GMYG133	M.RESISTOR CH1/10W 13K	1	
R551		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R552		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R553		ERJ6GMYJ273	M.RESISTOR CH1/10W 27K	1	
R554		ERJ6GMYJ243	M.RESISTOR CH1/10W 24K	1	
R556		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R557		ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R558		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R559,60		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	2	
R561		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R562		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R563		VRE0034E100	M.RESISTOR CH 1/10W 10	1	
R564		ERJ6GMYJ224	M.RESISTOR CH1/10W 220K	1	
R565		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R566		ERJ6GMYJ273	M.RESISTOR CH1/10W 27K	1	
R567		ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	1	
R568		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	1	
R569		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R570		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
W105-08		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	4	
W110-14		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	5	
W115		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
W116,17		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
			MISCELLANEOUS		
		VSC3714	SHIELD CASE (TOP)	1	
		VSC3478	SHIELD CASE (MAIN)	1	
		VSC3715	SHIELD CASE (BOTTOM)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP01558C	P.C.BOARD W/COMPONENT POWER		
		CAPACITORS		
C1103	VCC0021	C.CAPACITOR	1	<!>
C1106	VCC0021	C.CAPACITOR	1	<!>
C1109	VCC0023	C.CAPACITOR	1	<!>
C1110	ECQU2A224MN	P.CAPACITOR 250V 0.22U	1	<!>
C1111	ECQU2A154MNB	P.CAPACITOR 250V 0.15U	1	<!>
C1112	ECEC2GG680	E.CAPACITOR 400V 68U	1	
C1113	ECQE6473KF	P.CAPACITOR 50V	1	
C1114	VCK0106K121	C.CAPACITOR	1	
C1115	ECA1VXLV470	E.CAPACITOR 35V 47U	1	
C1116	ECA1CXLV101	E.CAPACITOR 16V 100U	1	
C1117	ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C1118	ECKF1H271KB	C.CAPACITOR 50V 270P	1	
C1121	ECCD2H101J	C.CAPACITOR 500V 100P	1	
C1123	ECEA1JFE560	E.CAPACITOR 56U	1	
C1124	ECEA1CFE331	E.CAPACITOR 16V 330U	1	
C1125	ECEA1DFZ681	E.CAPACITOR 680U	1	
C1126	ECEA1AFZ681	E.CAPACITOR 10V 680U	1	
C1127	ECEA1JFE470	E.CAPACITOR 47U	1	
C1128	ECEA1CFE121	E.CAPACITOR 16V 120U	1	
C1129	ECEA1DFZ681	E.CAPACITOR 680U	1	
C1130	ECEA1AFZ681	E.CAPACITOR 10V 680U	1	
C1131-34	ECKF1H102ZF	C.CAPACITOR 50V 1000P	4	
C1135,36	ECA1CGE101X	E.CAPACITOR 16V 100U	2	
C1139	ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1140,41	ECA1CGE101X	E.CAPACITOR 16V 100U	2	
D1102	EM1B	DIODE	1	<R><!>
D1103	AP01C	DIODE	1	<R>
D1104	MA178	DIODE	1	<R>
D1105	1SS254	DIODE	1	<R>
D1106	MA4200H	DIODE	1	<R>
D1107	MA723VT	DIODE	1	<R>
D1108	10ELS2	DIODE	1	<R>
D1109	MA185	DIODE	1	<R>
D1110	FMLG12SP	DIODE	1	<R>
D1111	FMBG14L	DIODE	1	<R>
D1112	SV03YS	DIODE	1	<R>
D1115-17	EM1B	DIODE	3	<R>
D1118	MA4056-L	DIODE	1	<R>
D1119	1SS254	DIODE	1	<R>
D1120	MA4120-H	DIODE	1	<R>
D1121,22	1SS254	DIODE	2	<R>
IC1101	STRM6547LF	IC	1	<R><!>
IC1103	SI3120C	IC	1	<R>
IC1104	SI-3050CA	IC	1	<R>
L1101,02	ELF18D221F	COIL 220UH	2	<!>
L1107-09	EXCELSA35	COIL	3	
L1110	VLP0074	COIL	1	
L1111,12	ELESE101KA	COIL 100UH	2	
L1113,14	ELC07B009	COIL	2	
L1115,16	VLP0083	COIL	2	
P1101	VJS2625	CONNECTOR (FEMALE)	1	<!>
P1102	VJP1930T	CONNECTOR (MALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1103	VJP1149	CONNECTOR (MALE)	1	
Q1101	PC120FY	TRANSISTOR	1	<R><!>
Q1102	2SD1996-R	TRANSISTOR	1	<R>
		RESISTORS		
R1101	ERC12AGM334	S.RESISTOR 1/2W 330K	1	<!>
R1102	VRE0087	M.RESISTOR	1	
R1103	ERG3SJ823	M.RESISTOR 3W 82K	1	
R1104,05	ERDS2FJ224	C.RESISTOR 1/4W 220K	2	
R1106	ERDS2FJ221	C.RESISTOR 1/4W 220	1	
R1109	ERDS2FJ561	C.RESISTOR 1/4W 560	1	
R1110	ERDS2FJ391	C.RESISTOR 1/4W 390	1	
R1111	ERX1SJ1R5	M.RESISTOR 1W 1.5	1	
R1112	ERDS2FJ103	C.RESISTOR 1/4W 10K	1	
R1113	ERDS2FJ682	C.RESISTOR 1/4W 6.8K	1	
R1114	ERDS2FJ101	C.RESISTOR 1/4W 100	1	
R1115	ERDS2TJ271	C.RESISTOR 1/4W 270	1	
R1122	EROS2CKG62R0	M.RESISTOR 1/4W 62.0	1	
R1123	EROS2CKG3001	M.RESISTOR 1/4W 3K	1	
R1124	EROS2CKG20R0	M.RESISTOR 1/4W 20.0	1	
R1125	EROS2CKG1201	M.RESISTOR 1/4W 1.2K	1	
R1126	ERDS1TJ562	C.RESISTOR 1/2W 5.6K	1	
R1127	ERDS2FJ224	C.RESISTOR 1/4W 220K	1	
T1101	VLT0718	TRANSFORMER	1	
		MISCELLANEOUS		
	VJF0318	FUSE HOLDER	2	<!>
	VMZ2212	CAPACITOR COVER	3	<!>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP00T87A	P.C.BOARD W/COMPONENT		
			MECHANISM CONNECTION		
D1501		LN59L.VT	DIODE	1	<R>
IC1501,02		0N1387	IC	2	<R>
P1503		VJS3316A002	CONNECTOR (FEMALE)	1	
P1504		VJS3317A004	CONNECTOR (FEMALE)	1	
P1505		VJS3537B014G	CONNECTOR (FEMALE)	1	
Q1501		PT493F1MN	TRANSISTOR	1	<R>
Q1502		PN205L-NC.VT	TRANSISTOR	1	<R>
SW1501		VES0695	SWITCH	1	<R>
SW1502		VST0176	SWITCH	1	<R>
			MISCELLANEOUS		
		VMD2029	REEL GUIDE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks

16-2. ELECTRICAL REPLACEMENT PARTS LIST FOR AG-4700BY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP03C01E	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		MAIN		
	VEP07801R	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		TV DEMODULATOR		FOR VEP03C01E
	VEP02412B	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		CAP DRIVE		FOR VEP03C01E
	VEP03A61J	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		Y/C		FOR VEP03C01E
	VEP03A62F	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		SUB Y/C		FOR VEP03C01E
	VEP03A90B	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		REC/RF		FOR VEP03C01E
	VEP03A72G	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		INPUT/OUTPUT		FOR VEP03C01E
	VEP04417C	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		SUB AUDIO		FOR VEP03C01E
	VEP04447PS	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		FM AUDIO PACK		FOR VEP03C01E
	VEP07675G	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		DECODER		FOR VEP03C01E
	VEP06B45A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		VR		
	VEP07739AC	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		TIMER		
	VEX0235	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		CYLINDER DRIVE		
	VEP03A53A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		TBC		
	VEP03A63A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		VITC		
	VEP05176G	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		HEAD AMP		
	VEP01558C	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		POWER		
	VEP00T87A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		MECHANISM CONNECTION		
F1101	XBA2C16TH15	FUSE	1	<!>

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP03C01E	P.C.BOARD W/COMPONENT		
		MAIN		
C301	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C303	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C305	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C306	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C307	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C308	ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C309	ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C310	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C311	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C312	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C313	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C314	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C315,16	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C317	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C318	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C319	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C321,22	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	2	
C324	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C325,26	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C329	ECQV1H334JM	P.CAPACITOR 50V 0.33U	1	
C331	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C332,33	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C334	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C335	ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C336	ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C337	ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C338	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C339	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C340	ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C341	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C342	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C343	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C344	ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C345,46	ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C348	ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C349	ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C350	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C0701-03	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	3	
C0704	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C0705	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C0706	ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C0707,08	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C0709	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C0710	ECUX1H470JPV	C.CAPACITOR 50V 47P	1	
C0711	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0712	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0714	ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C0715	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C0716	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0717	ECUX1H270JPV	C.CAPACITOR 50V 27P	1	
C0718	ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C0719	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C0720	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0722	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0723	ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C0724	ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C0726	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0727	ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C0729	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0730	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0733	ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C802	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C803	ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C804	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C805,06	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C808	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C809	ECEA1HKA4R7	E.CAPACITOR 50V 4.7U	1	
C810	ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C811-13	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C814		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C815		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C816		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C817		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C818		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C819		ECWM1H332JZ	P.CAPACITOR CH 50V 3300P	1	
C820		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C821-23		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C824		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C825-27		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C828,29		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	2	
C830		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C831		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C832		ECQV1H154JM	P.CAPACITOR 50V 0.15U	1	
C833		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C834		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C835		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C836		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C1001		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C2001		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2003		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C2005		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2006		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C2007		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2009		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2010		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2501-04		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C2505		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2506		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2507		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2508-10		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	3	
C2511-14		ECUM1E333KBN	C.CAPACITOR CH 25V 0.033U	4	
C2515		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2516		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C2517		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2518		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2519,20		ECUM1E333KBN	C.CAPACITOR CH 25V 0.033U	2	
C2521		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2522		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	1	
C2523		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C2524,25		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C2526		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2527		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C2528		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	1	
C2529		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2530		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2531		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C2532		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2533		ECEA0JKA330	E.CAPACOTOR 6.3V 33U	1	
C2534,35		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
C3001		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C3002		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3003-06		ECEA1HKA010	E.CAPACITOR 50V 1U	4	
C3007,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3009		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3010		ECA1AM331	E.CAPACITOR 10V 330U	1	
C3011		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3012		ECA1AM331	E.CAPACITOR 10V 330U	1	
C3013		ECA0JM331	E.CAPACITOR 6.3V 330U	1	
C3014		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3015		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3016		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3017-19		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C3022		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3023,24		ECEA1AKA330	E.CAPACITOR 10V 33U	2	
C3027,28		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3029		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3030		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3031		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3032		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3033		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3050		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C3301		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3302		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3304-08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3309		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3310		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3312-14		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3321		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3322		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3323		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3324		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3325		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3326		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3327,28		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3329		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3330		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3336		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3338		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3339		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3340		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3341		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3342		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3343		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3344		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3345		ECUM1H391JCN	C.CAPACITOR CH 50V 390P	1	
C3346		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3347		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3351,52		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	2	
C3353		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3354		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3372		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C3401		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3402		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C3403-07		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C3408,09		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3421		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C3422		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3423		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C3424		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3425		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3426		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3427		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3428		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3429		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3430		ECEA0JKA330	E.CAPACOTOR 6.3V 33U	1	
C3431		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3443		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3444		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3445		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3447		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C3448		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3449		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3450,51		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C3452		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3472		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3473		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3474		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3475-77		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3501		ECA0JM471	E.CAPACITOR 6.3V 470U	1	
C3502		ECRHA030E54	TRIMMER 3P	1	
C3503		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3504		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C3505		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3506		ECWM1H682JZ	P.CAPACITOR CH 50V 6800P	1	
C3507		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3508		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C3509		ECUM1H122KBN	C.CAPACITOR CH 50V 1200P	1	
C3510		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3511		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3512		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3513		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C3514,15		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C3516,17		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C3518		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C3519		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C3520		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C3521		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3522		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C3523		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3524		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3525-27		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3528		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3529		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3530		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3531		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3532		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3533		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C3534		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3601		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3602		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3603		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3604		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3605		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3606		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3607		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3608		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3609		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C3610		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3611,12		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	2	
C3613		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3614		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3901-05		ECEA1CKA100	E.CAPACITOR 16V 10U	5	
C3906		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3907		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3908		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3909,10		ECA1AM471	E.CAPACITOR 10V 470U	2	
C3911		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C3912		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C3913		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3914		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C3915		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3916		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3917		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3918		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3919		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3922		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3923		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3924		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3927		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C4001,02		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4003,04		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C4005		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4006		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C4007		ECEA1CPZ101	E.CAPACITOR 16V 100U	1	
C4008		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C4009		ECEA1CPZ101	E.CAPACITOR 16V 100U	1	
C4010		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C4011,12		ECUM1H122KBN	C.CAPACITOR CH 50V 1200P	2	
C4501		ECQB1H152JZ	F.CAPACITOR 50V 1500P	1	
C4502		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4503		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4504,05		ECEA1CU470	E.CAPACITOR 16V 47U	2	
C4506		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4507		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4508		ECEA1EBZ4R7	E.CAPACITOR 25V 4.7U	1	
C4509		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4510		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4511		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4512		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4513		ECUX1H681JV	C.CAPACITOR CH 50V 680P	1	
C4514		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4515		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C4517		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4518		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4521		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4522		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C4528		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4530		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C4533		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4537		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4538		ECEA1HUR47	E.CAPACITOR 50V 0.47U	1	
C4539		ECUX1C224ZFV	C.CAPACITOR CH 16V 0.22U	1	
C4541		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4545		ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4551		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4552		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4556		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4558		ECEA1EBZ4R7	E.CAPACITOR 25V 4.7U	1	
C4559		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4560		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4561		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4562		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4563		ECUX1H681JV	C.CAPACITOR CH 50V 680P	1	
C4564		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4565		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C4567		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4568		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4572		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C4576		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4583		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4585,86		ECEA1AU101	E.CAPACITOR 10V 100U	2	
C4591		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4592		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4593		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4594,95		ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C4596		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4597		ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C4598		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4604		ECUM1H182JN	C.CAPACITOR CH 50V 1800P	1	
C4606		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C4611		ECQB1H182JZ	F.CAPACITOR 50V 1800P	1	
C4613		ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C4616		ECUX1H102ZFV	C.CAPACITOR CH 50V 1000P	1	
C4617		ECEA1OM22	E.CAPACITOR 10V 22U	1	
C4618		ECQB1H822JZ	P.CAPACITOR 50V 8200P	1	
C4621		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C4629		ECQB1H562JZ	P.CAPACITOR 50V 5600P	1	
C4636		ECUX1H471JV	C.CAPACITOR CH 50V 470P	1	
C4638		ECQB1H822JZ	P.CAPACITOR 50V 8200P	1	
C4652,53		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C4701		ECCD2H181J	C.CAPACITOR 500V 180P	1	
C4702		ECQP1222JZ	P.CAPACITOR 100V 2200P	1	
C4703		ECQB1H102JF	P.CAPACITOR 50V 1000P	1	
C4704		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4705		ECEA16M33	E.CAPACITOR 16V 33U	1	
C4706		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C4707		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4708		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4709		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C4710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4711,12		ECEA1AKA220	E.CAPACITOR 10V 22U	2	
C4713		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C4714		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C4901,02		ECQB1H103JZ	P.CAPACITOR 50V 0.01U	2	
C4903,04		ECWM1H332JZ	P.CAPACITOR CH 50V 3300P	2	
C4905,06		VCEA1CAD100	E.CAPACITOR 16V 10U	2	
C4907,08		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4909,10		ECQB1H103JZ	P.CAPACITOR 50V 0.01U	2	
C4911,12		ECWM1H332JZ	P.CAPACITOR CH 50V 3300P	2	
C4913,14		VCEA1CAD100	E.CAPACITOR 16V 10U	2	
C4915,16		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4917,18		ECQB1H103JZ	P.CAPACITOR 50V 0.01U	2	
C4919,20		ECWM1H332JZ	P.CAPACITOR CH 50V 3300P	2	
C4923,24		VCEA0JAC101	E.CAPASITOR 6.3V 100U	2	
C6001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6002		ECEA0JKA330	E.CAPACITOR 6.3V 33U	1	
C6003		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6004		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6005		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6006		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6007,08		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C6009		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C6010		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C6011		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C6012		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C6013		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C6014		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C6015		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C6016,17		ECEA1HKN3R3	E.CAPACITOR 50V 3.3U	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C6018		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C6019		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6020		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6021		ECEA16M10	E.CAPACITOR 16V 1U	1	
C6022		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C6023		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C6024		ECEA1HKA4R7	E.CAPACITOR 50V 4.7U	1	
C6025		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C6026		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C6027		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C6028		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C6029		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C6030		EECS5R5T224N	E.CAPACITOR 5.5V 0.22U	1	
C6034		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6035		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C6036		ECEA0JKA330	E.CAPACITOR 6.3V 33U	1	
C6037		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6038		ECEA1AKA470	E.CAPACITOR 10V 47U	1	
C6040		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6041		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C6042		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6043		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6045		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6046		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6049		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C6050,51		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C6053-56		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C6062		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C6063		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C7408		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7409		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7410		ECUM1H563ZFN	C.CAPACITOR CH 50V 0.056U	1	
C7411		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7412		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7413		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C7414		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C7415		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7416		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C7418		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C7419		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7420		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7421		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C7422,23		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7424		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7425		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7426		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7427		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7428		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C7429		ECEA1CSN100	E.CAPACITOR 16V 10U	1	
C7901-03		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	3	
C7904		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7905		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7906		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7907		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7908		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C7909		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7910		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7911-13		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	3	
C7914		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7915		ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C7916		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7917		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7918		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7919		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7920		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7921		ECQB1H102JH	P.CAPACITOR 50V 1000P	1	
C7922		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C7923		ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C7924		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7925		ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C7926		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7927		ECQB1H102JH	P.CAPACITOR 50V 1000P	1	
C7928		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C7929		ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C7930		ECEA1CKN100	E.CAPACITOR 16V 10U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7931		ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C7932,33		ECEA1CKN100	E.CAPACITOR 16V 10U	2	
C7934		ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C7935		ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C7937		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7938		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C7939,40		ECEA1HKN0R1	E.CAPACITOR 50V 0.1U	2	
C7941		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C7942		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7943		ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C7945		ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C7946		ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C7947		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C7948		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7949		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C7950-53		ECEA1CKN100	E.CAPACITOR 16V 10U	4	
C7954		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7955-58		ECEA1CK100	E.CAPACITOR 16V 10U	4	
C7960		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7961		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7963		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7964		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7965,66		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C7967		ECEA1CK100	E.CAPACITOR 16V 10U	1	
D301		1SS283	DIODE	1	<R>
D303		MA151WK	DIODE	1	<R>
D305		1SS254	DIODE	1	<R>
D306		MA723VT	DIODE	1	<R>
D307		1SS254	DIODE	1	<R>
D308,09		MA151WK	DIODE	2	<R>
D801-07		1SS254	DIODE	7	<R>
D808		MA151WK	DIODE	1	<R>
D2001-05		1SS254	DIODE	5	<R>
D2501-08		1SS254	DIODE	8	<R>
D2510		1SS254	DIODE	1	<R>
D3002		MA28W-A	DIODE	1	<R>
D3003		1SS254	DIODE	1	<R>
D3301		1SS254	DIODE	1	<R>
D3302		MA151K	DIODE	1	<R>
D3304		MA151K	DIODE	1	<R>
D3403		MA723VT	DIODE	1	<R>
D3408		1SS254	DIODE	1	<R>
D3501		1SS254	DIODE	1	<R>
D3502		MA153	DIODE	1	<R>
D3504		MA151WK	DIODE	1	<R>
D3901		1SS254	DIODE	1	<R>
D3902		MA4130L	DIODE	1	<R>
D3903		1SS254	DIODE	1	<R>
D3904		MA151WK	DIODE	1	<R>
D3906		MA151WA	DIODE	1	<R>
D3908,09		1SS254	DIODE	2	<R>
D4003		MA723VT	DIODE	1	<R>
D4004		1SS254	DIODE	1	<R>
D4501-04		MA141K	DIODE	4	<R>
D4601,02		MA141K	DIODE	2	<R>
D4701,02		1SS254	DIODE	2	<R>
D6001		1SS254	DIODE	1	<R>
D6002		MA723VT	DIODE	1	<R>
D6003		1SS254	DIODE	1	<R>
D6005		MA151WK	DIODE	1	<R>
D6006		MA151WA	DIODE	1	<R>
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D6008		MA151WA	DIODE	1	<R>
D6009		11EQS04	DIODE	1	<R>
D6011,12		11EQS04	DIODE	2	<R>
D6013		MA723VT	DIODE	1	<R>
D6014		1SS254	DIODE	1	<R>
D6015		MA723VT	DIODE	1	<R>
D7402		MA4300M	DIODE	1	<R>
D7404		MA151WK	DIODE	1	<R>
D7405		1SS254	DIODE	1	<R>
D7901,02		MA141WK	DIODE	2	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D7904		MA141K	DIODE	1	<R>
D7905		MA141WA	DIODE	1	<R>
D7906		MA141WK	DIODE	1	<R>
D7907		MA141K	DIODE	1	<R>
DL801		EFDUN124A13N	DELAY	1	<R>
DL802		EFDVR645A45A	DELAY LINE	1	<R>
DL803		VLD0147	DELAY LINE	1	<R>
FL301		ELB4M022	FILTER	1	
FL302		VLF0639	FILTER	1	
FL801		VLF1079	FILTER	1	
FL3601		ELB4R031	FILTER	1	
FL3901		VLF1120	FILTER	1	
FL3902		VLF0765	FILTER	1	
FL7901		VLF0702	FILTER	1	
FL7902		ELKAW103EB	FILTER	1	
FL7903		ELKAW101GB	FILTER	1	
FL7904,05		ELKAW103EB	FILTER	2	
FL7907-11		ELKAW103EB	FILTER	5	
FL7914,15		ELKAW101GB	FILTER	2	
FL7916		VLF0633	FILTER	1	
IC301		VCR0390	IC	1	<R>
IC302		MN3859S	IC	1	<R>
IC303		AN1358S	IC	1	<R>
IC0701		LA7576	IC	1	<R>
IC801		VCR0383	IC	1	<R>
IC802		M52352FP	IC	1	<R>
IC2001		AN3727S	IC	1	<R>
IC2002		UPD4053BG	IC	1	<R>
IC2501		BA6219B	IC	1	<R>
IC2502		LM358PS	IC	1	<R>
IC2503		XRA6439S	IC	1	<R>
IC2504		LM358PS	IC	1	<R>
IC2505		LM393P	IC	1	<R>
IC3001		AN3581S	IC	1	<R>
IC3002		M52055FP	IC	1	<R>
IC3301		M52083FP	IC	1	<R>
IC3401		NJM2233BMA	IC	1	<R>
IC3403		MN155202VZAM	IC	1	<R>
IC3404		MN1280-S	IC	1	<R>
IC3405		UPD4066BG	IC	1	<R>
IC3501		LC74760	IC	1	<R>
IC3502		M52055FP	IC	1	<R>
IC3503		NJM2246DA	IC	1	<R>
IC3504		NJM2233BMA	IC	1	<R>
IC3601		AN6308S	IC	1	<R>
IC3901		M52475AP	IC	1	<R>
IC3902		AN3916	IC	1	<R>
IC3904		AN1393S	IC	1	<R>
IC4001		NJM4565DD	IC	1	<R>
IC4501		XLH7773AKS	IC	1	<R>
IC4601		BA7755AF	IC	1	<R>
IC4701		AN1358S	IC	1	<R>
IC4702		MN4066BS	IC	1	<R>
IC4901		LA7155M	IC	1	<R>
IC6001		MN6755320H3W	IC	1	<R>
IC6002		M38024V1BN	IC	1	<R>
IC6003		MN1280-S	IC	1	<R>
IC6005		UPD4052BG	IC	1	<R>
IC6007		M6M80041P	IC	1	<R>
IC6008		TL431CLP	IC	1	<R>
IC7401		M66006FP	IC	1	<R>
IC7402		LA7217M	IC	1	<R>
IC7901		TB1204F	IC	1	<R>
IC7902		TA2009F	IC	1	<R>
IC7903		M5238FP	IC	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
J3901,02		VJS1470	CONNECTOR (FEMALE)	2	
K2		ERJ3GEY0R00	M.RESISTOR CH1/16W 0	1	
K4		ERJ3GEY0R00	M.RESISTOR CH1/16W 0	1	
K6		ERJ3GEY0R00	M.RESISTOR CH1/16W 0	1	
K101,02		ERJ3GEY0R00	M.RESISTOR CH1/16W 0	2	
K0702		ERJ3GEY0R00	M.RESISTOR CH1/16W 0	1	
K0704-06		ERJ3GEY0R00	M.RESISTOR CH1/16W 0	3	
K3003		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
K3010		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
K3909		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
K4901,02		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	2	
K6003-05		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	3	
K6016		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
K7404		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
K7409,10		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	2	
K7417		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
L302		VLQ0188J180	COIL 18UH	1	
L304		VLQ0188J270	COIL 27UH	1	
L305		VLQ0188J101	COIL 100UH	1	
L306		VLQ0188J390	COIL 39UH	1	
L309-11		VLQ0188J330	COIL 33UH	3	
L312		VLQ0407101K	COIL 100UH	1	
L0701		VLQ0163JR22	COIL	1	
L0705		VLQ0163J2R7	COIL	1	
L0706		VLQEL05S8R2K	COIL	1	
L801,02		ELESE681KA	COIL 680UH	2	
L803		ELESE331KA	COIL 330UH	1	
L804		VLQ0407101K	COIL 100UH	1	
L806		VLQ0407101K	COIL 100UH	1	
L807,08		VLQ0188J150	COIL 15UH	2	
L809		VLQ0188J330	COIL 33UH	1	
L810		VLQ0188J150	COIL 15UH	1	
L811		VLQ0188J151	COIL 150UH	1	
L812		VLQ0188J270	COIL 27UH	1	
L813,14		VLQ0188J150	COIL 15UH	2	
L2001		VLQ0569	COIL	1	
L2002		VLQ0556	COIL	1	
L2501		VLP0074	COIL	1	
L2502		ELESE330KA	COIL	1	
L2503		ELESE102KA	COIL 1000UH	1	
L3001-03		VLQ0188J330	COIL 33UH	3	
L3004		VLQ0398	COIL	1	
L3005-08		VLQ0556	COIL	4	
L3301		VLQ0188J150	COIL 15UH	1	
L3304		VLQ0188J330	COIL 33UH	1	
L3306		VLQ0188J390	COIL 39UH	1	
L3307		VLQ0188J120	COIL 12UH	1	
L3308		VLQ0188J330	COIL 33UH	1	
L3309		VLQ0188J181	COIL 180UH	1	
L3310		VLQ0188J270	COIL 27UH	1	
L3313		ELESE681KA	COIL 680UH	1	
L3315,16		VLQ0188J5R6	COIL 5.6UH	2	
L3318		VLQ0188J330	COIL 33UH	1	
L3323		VLQ0188J330	COIL 33UH	1	
L3401		VLQ0188J150	COIL 15UH	1	
L3404		VLQ0188J220	COIL 22UH	1	
L3405		VLQ0188J330	COIL 33UH	1	
L3412		VLQ0188J330	COIL 33UH	1	
L3415		VLQ0188J120	COIL 12UH	1	
L3501		VLQ0188J330	COIL 33UH	1	
L3502		VLQ0188J5R6	COIL 5.6UH	1	
L3503		VLQ0188J100	COIL 10UH	1	
L3504		VLQ0188J390	COIL 39UH	1	
L3505		VLQ0188J820	COIL 82UH	1	
L3508		VLQ0188J330	COIL 33UH	1	
L3601		VLQEL05S120K	COIL 12UH	1	
L3602,03		VLQEL05S101K	COIL 100UH	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L3604		VLQEL05S151K	COIL 150UH	1	
L3605		VLQEL05S820K	COIL 82UH	1	
L3901-04		ELESE101KA	COIL 100UH	4	
L3906		VLQ0188J1R0	COIL 1UH	1	
L4001,02		ELESE101KA	COIL 100UH	2	
L4501,02		ELESE101KA	COIL 100UH	2	
L4601		VLQEL07F153J	COIL	1	
L4701		ELESE471KA	COIL 470UH	1	
L4702		ELESE101KA	COIL 100UH	1	
L4901,02		ELESE102KA	COIL 1000UH	2	
L4903,04		ELESE101KA	COIL 100UH	2	
L4905,06		ELESE102KA	COIL 1000UH	2	
L4907,08		ELESE101KA	COIL 100UH	2	
L4909,10		ELESE102KA	COIL 1000UH	2	
L6001		VLP0083	COIL	1	
L6002		ELESE101KA	COIL 100UH	1	
L6003		VLP0083	COIL	1	
L6007,08		VLP0083	COIL	2	
L6009		ELESE101KA	COIL 100UH	1	
L7407		VLQ0599J1R0	COIL	1	
L7408-12		VLQ0599J680	COIL 68UH	5	
L7901,02		VLP0083	COIL	2	
P1001		VJP2593	CONNECTOR (MALE)	1	
P1001		VJS2593	CONNECTOR (FEMALE)	1	
P1002		VJP1142	CONNECTOR	1	
P1002		VJS1142	CONNECTOR (FEMALE)	1	
P1102		VJS1932	CONNECTOR (FEMALE)	1	
P1103		VJS1142	CONNECTOR (FEMALE)	1	
P1509		VJS1229	CONNECTOR	1	
P2001		VJP1232T	CONNECTOR (MALE) 5P	1	
P2001		VJS1738T	CONNECTOR (FEMALE)	1	
P2003		VJP3502	CONNECTOR	1	
P2003		VJS3482	CONNECTOR	1	
P2004		VJS3537A015G	CONNECTOR	1	
P2902		VJS1738T	CONNECTOR (FEMALE)	1	
P3001		VJS3537A020G	CONNECTOR	1	
P3002		VJP3233A010	CONNECTOR	1	
P3002		VJS3366Z010	CONNECTOR	1	
P3003		VJF0171	CONNECTOR	1	
P3003		VJP1393T	CONNECTOR (MALE) 13P	1	
P3004		VJF0171T	CONNECTOR	1	
P3004		VJP1393T	CONNECTOR (MALE) 13P	1	
P3801		VJF0171T	CONNECTOR	1	
P4001		VJS2331	CONNECTOR (FEMALE)	1	
P4002		VJP1238T	CONNECTOR (MALE) 11P	1	
P4002		VJS1744T	CONNECTOR (FEMALE)	1	
P4003		VJP1230T	CONNECTOR (MALE) 3P	1	
P4003		VJS1230	CONNECTOR	1	
P6001		VJS3537A014G	CONNECTOR	1	
P6003		VJP1233T	CONNECTOR (MALE) 6P	1	
P6003		VJS1739T	CONNECTOR (FEMALE)	1	
P6004		VJP1235T	CONNECTOR (MALE) 8P	1	
P6004		VJS1741T	CONNECTOR (FEMALE)	1	
P6502		VJS1744T	CONNECTOR (FEMALE)	1	
P7401,02		VJS3537A020G	CONNECTOR	2	
P7503		VJS3366Z010	CONNECTOR	1	
P7504		VJS1739T	CONNECTOR (FEMALE)	1	
P9001		VJF0171	CONNECTOR	1	
P9002		VJS1741T	CONNECTOR (FEMALE)	1	
PK0701		VJR0816E010W	CONNECTOR	1	
PK4001-03		VJR0757B018T	CONNECTOR	3	
PK7901,02		VJR0477	PACK PIN	2	
PP0701		VJP3589A004B	CONNECTOR	1	
PP2001		VJP3042A012W	CONNECTOR (MALE) 12P	1	
PP2002		VJP3042A010W	CONNECTOR (MALE) 10P	1	
PP3001		VJP3042A009W	CONNECTOR (MALE) 9P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
PP3002		VJP3042A012W	CONNECTOR (MALE) 12P	1	
PP3003		VJP3042A013W	CONNECTOR (MALE) 13P	1	
PP3011,12		VJP3042A018W	CONNECTOR (MALE) 18P	2	
PP3013		VJP3042A014W	CONNECTOR (MALE) 14P	1	
PP3021-24		VJP3043A012W	CONNECTOR (MALE) 12P	4	
PP3301		VJP3042A011W	CONNECTOR (MALE) 11P	1	
PP4501		VJP3042A017W	CONNECTOR (MALE) 17P	1	
PS301		VJS3042B009W	CONNECTOR (FEMALE) 9P	1	
PS302		VJS3042B012W	CONNECTOR (FEMALE) 12P	1	
PS303		VJS3042B013W	CONNECTOR (FEMALE) 13P	1	
PS2001		VJS3042B012W	CONNECTOR (FEMALE) 12P	1	
PS2002		VJS3042B010W	CONNECTOR (FEMALE) 10P	1	
PS3021-24		VJS3043B012W	CONNECTOR (FEMALE) 12P	4	
PS3302,03		VJS3042B018W	CONNECTOR (FEMALE) 18P	2	
PS3501		VJS3042F014W	CONNECTOR (FEMALE) 14P	1	
PS3601		VJS3042B011W	CONNECTOR (FEMALE) 11P	1	
PS4701		VJS3042B017W	CONNECTOR (FEMALE) 17P	1	
Q301		MSC2295	TRANSISTOR	1	<R>
Q302		MSB709	TRANSISTOR	1	<R>
Q303,04		MSC2295	TRANSISTOR	2	<R>
Q305		MSD601	TRANSISTOR	1	<R>
Q306		MSC2295	TRANSISTOR	1	<R>
Q307,08		MSB709	TRANSISTOR	2	<R>
Q0701		MSD601-S	TRANSISTOR	1	<R>
Q0702		MSB709-R	TRANSISTOR	1	<R>
Q801		2SA1022	TRANSISTOR	1	<R>
Q802		MSC2295	TRANSISTOR	1	<R>
Q803		MSB709	TRANSISTOR	1	<R>
Q2001,02		MSB709	TRANSISTOR	2	<R>
Q3001		MSD602	TRANSISTOR	1	<R>
Q3002		2SB1322	TRANSISTOR	1	<R>
Q3003		MSD601	TRANSISTOR	1	<R>
Q3004		MSC2295	TRANSISTOR	1	<R>
Q3005,06		MSD601	TRANSISTOR	2	<R>
Q3301,02		MSC2295	TRANSISTOR	2	<R>
Q3304,05		MSD601	TRANSISTOR	2	<R>
Q3401,02		MSC2295	TRANSISTOR	2	<R>
Q3403		MSD601	TRANSISTOR	1	<R>
Q3404		MSC2295	TRANSISTOR	1	<R>
Q3405-07		MSD601	TRANSISTOR	3	<R>
Q3408		MSD602	TRANSISTOR	1	<R>
Q3409		MSB710	TRANSISTOR	1	<R>
Q3410-12		MSD601	TRANSISTOR	3	<R>
Q3422		MSD1328	TRANSISTOR	1	<R>
Q3423		MSD601	TRANSISTOR	1	<R>
Q3424		MSB710	TRANSISTOR	1	<R>
Q3425		MSC2295	TRANSISTOR	1	<R>
Q3426,27		MSD601	TRANSISTOR	2	<R>
Q3501		MSD601	TRANSISTOR	1	<R>
Q3502		MSB709	TRANSISTOR	1	<R>
Q3601		MSD601	TRANSISTOR	1	<R>
Q3602,03		MSC2295	TRANSISTOR	2	<R>
Q3604		MSB709	TRANSISTOR	1	<R>
Q3901,02		2SD1991A	TRANSISTOR	2	<R>
Q3903		MSD1328	TRANSISTOR	1	<R>
Q3904		MSD601	TRANSISTOR	1	<R>
Q3905		MSC2295	TRANSISTOR	1	<R>
Q3906		MSB709	TRANSISTOR	1	<R>
Q3907		MSD601	TRANSISTOR	1	<R>
Q3912		2SD1996	TRANSISTOR	1	<R>
Q3913-15		MSD601	TRANSISTOR	3	<R>
Q3916		MSB710	TRANSISTOR	1	<R>
Q3917		MSD602	TRANSISTOR	1	<R>
Q3918		MSB710	TRANSISTOR	1	<R>
Q4501		2SD655TZ	TRANSISTOR	1	<R>
Q4551		2SB561	TRANSISTOR	1	<R>
Q4552		2SD1819A	TRANSISTOR	1	<R>
Q4601,02		2SD1819A	TRANSISTOR	2	<R>
Q4701		2SD602A-R	TRANSISTOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q4702,03		MSD601	TRANSISTOR	2	<R>
Q4704,05		MSB710	TRANSISTOR	2	<R>
Q4706		2SB1378	TRANSISTOR	1	<R>
Q4707		2SD601A	TRANSISTOR	1	<R>
Q4708		2SB1378	TRANSISTOR	1	<R>
Q6001		2SD1991A	TRANSISTOR	1	<R>
Q6002		MSB709	TRANSISTOR	1	<R>
Q6003		2SD1915F	TRANSISTOR	1	<R>
Q6004-06		MSD601	TRANSISTOR	3	<R>
Q6008		2SD1991	TRANSISTOR	1	<R>
Q7402		MSD1328-S	TRANSISTOR	1	<R>
Q7901,02		MSD601	TRANSISTOR	2	<R>
Q7903		2SC3931-C	TRANSISTOR	1	<R>
Q7904-07		2SB1219	TRANSISTOR	4	<R>
Q7908,09		2SC3929	TRANSISTOR	2	<R>
Q7910		2SD1820	TRANSISTOR	1	<R>
Q7913		2SB1218-Q	TRANSISTOR	1	<R>
Q7914,15		2SD1979-S	TRANSISTOR	2	<R>
Q7916		2SB1219	TRANSISTOR	1	<R>
QR301		MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR302		MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR303		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR304		MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR305		MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR306		XN6213	TRANSISTOR-RESISTOR	1	<R>
QR307		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR308		MRN1407	TRANSISTOR-RESISTOR	1	<R>
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QR2501		XN1211	TRANSISTOR-RESISTOR	1	<R>
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QR4508,09		UN5113	TRANSISTOR-RESISTOR	2	<R>
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Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
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QR4704		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR6001		MUN2211	TRANSISTOR-RESISTOR	1	<R>
QR6002,03		MUN2111	TRANSISTOR-RESISTOR	2	<R>
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QR7403		MUN2214	TRANSISTOR-RESISTOR	1	<R>
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QR7901,02		UN5213	TRANSISTOR-RESISTOR	2	<R>
QR7903		UN5112	TRANSISTOR-RESISTOR	1	<R>
QR7904		UN5214	TRANSISTOR-RESISTOR	1	<R>
QR7905,06		UN5213	TRANSISTOR-RESISTOR	2	<R>
R301		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R303		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R304		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R305,06		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	2	
R307		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R308		ERJ6GMYJ104	M.RESISTOR CH1/10W 1M	1	
R309		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R310		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R311		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R312		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R313		ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R314		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R315		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R316		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R317		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R318		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	1	
R319		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R320		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R321		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R322		ERJ6GMYG123	M.RESISTOR CH1/10W 12K	1	
R323		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R324		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R325		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R326		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R327		ERJ6GMYG432	M.RESISTOR CH1/10W 4.3K	1	
R328		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R329		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R330		ERJ6GMYG432	M.RESISTOR CH1/10W 4.3K	1	
R331		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R332		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R333		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R334		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R335		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R336		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R337		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R338,39		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R340		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R341		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R342		ERJ6GMYJ181	M.RESISTOR CH1/10W 180	1	
R343		ERJ6GMYJ273	M.RESISTOR CH1/10W 27K	1	
R344		ERJ6GMYJ911	M.RESISTOR CH1/10W 910	1	
R345		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R346		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R347		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R348		ERJ6GMYJ273	M.RESISTOR CH1/10W 27K	1	
R349		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R350		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R351		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R352		ERJ6GMYG183	M.RESISTOR CH1/10W 18K	1	
R353		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R354		ERJ6GMYG753	M.RESISTOR CH1/10W 75K	1	
R355		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R356		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R357		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R358		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R359		ERJ6GMYJ181	M.RESISTOR CH1/10W 180	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R360,61		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R0702		ERJ3GEYJ272	M.RESISTOR CH1/16W 2.7K	1	
R0703		ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R0704		ERJ3GEYJ222	M.RESISTOR CH1/16W 2.2K	1	
R0705		ERJ3GEYJ562	M.RESISTOR CH1/16W 5.6K	1	
R0706,07		ERJ3GEYJ272	M.RESISTOR CH1/16W 2.7K	2	
R0708		ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R0709		ERJ3GEYJ105	M.RESISTOR CH1/16W 1M	1	
R0710		ERJ6GEYJ154	M.RESISTOR CH1/10W 150K	1	
R0713		ERJ3GEYJ301	M.RESISTOR CH1/16W 300	1	
R0714		ERJ3GEYJ470	M.RESISTOR CH1/16W 47	1	
R0715		ERJ3GEYJ183	M.RESISTOR CH1/16W 18K	1	
R0716		VRE0040E151	M.RESISTOR CH1/10W 150	1	
R0717		ERJ3GEY0R00	M.RESISTOR CH1/16W 0	1	
R0718		ERJ3GEYJ102	M.RESISTOR CH1/16W 1K	1	
R0719		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R0720		ERJ3GEYJ102	M.RESISTOR CH1/16W 1K	1	
R0722		ERJ3GEYJ101	M.RESISTOR CH1/16W 100	1	
R0723		ERJ3GEYJ271	M.RESISTOR CH1/16W 270	1	
R0724		ERJ3GEYJ183	M.RESISTOR CH1/16W 18K	1	
R0725		ERJ3GEYJ182	M.RESISTOR CH1/16W 1.8K	1	
R0726		ERJ3GEYG431	M.RESISTOR CH1/16W 430	1	
R0727		ERJ3GEYG182	M.RESISTOR CH1/16W 1.8K	1	
R0728		ERJ3GEYJ471	M.RESISTOR CH1/16W 470	1	
R0729		ERJ3GEYJ102	M.RESISTOR CH1/16W 1K	1	
R0732		ERJ3GEYJ471	M.RESISTOR CH1/16W 470	1	
R0783		ERJ3GEYJ393	M.RESISTOR CH1/16W 39K	1	
R802		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R803		ERJ6GMYJ242	M.RESISTOR CH1/10W 2.4K	1	
R804,05		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R809		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R810,11		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R814		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R815		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R816		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
R817		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R818		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R820		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R821,22		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R824		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R825		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	1	
R826		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	1	
R827		ERJ6GMYJ154	M.RESISTOR CH1/10W 150K	1	
R828		ERJ6GMYJ204	M.RESISTOR CH1/10W 200K	1	
R829		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R830		ERJ6GMYJ154	M.RESISTOR CH1/10W 150K	1	
R831		ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	1	
R832		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R833		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R834		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R835,36		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	2	
R837		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R838,39		ERJ6GMYJ681	M.RESISTOR CH1/10W 680	2	
R840		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R841		ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R842,43		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	2	
R844		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R845		ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R846		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R847		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R848		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R849		ERJ6GMYK395	M.RESISTOR CH1/10W 3.9M	1	
R850		ERJ6GMYJ302	M.RESISTOR CH1/10W 3K	1	
R851,52		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R853		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R1001		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R2004		ERJ6GMYJ104	M.RESISTOR CH1/10W 1M	1	
R2005		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R2011		ERJ6GMYG222	M.RESISTOR CH1/10W 2.2K	1	
R2012		ERJ6GMYG392	M.RESISTOR CH1/10W 3.9K	1	
R2013,14		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	2	
R2015		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R2016		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R2018		ERJ6GMYJ104	M.RESISTOR CH1/10W 1M	1	
R2019		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2501		ERX1SJ1R8	M.RESISTOR 1W 1.8	1	
R2502		ERJ6GMYG112	M.REISITOR CH1/10W 1.1K	1	
R2503		ERJ6GMYG102	M.RESISTOR CH1/10W 1K	1	
R2504		ERJ6GMYG332	M.RESISTOR CH1/10W 3.3K	1	
R2505		VRE0034E103	M.RESISTOR CH1/10W 10K	1	
R2506		ERJ6GMYJ564	M.RESISTOR CH1/10W 560K	1	
R2507		VRE0034E103	M.RESISTOR CH1/10W 10K	1	
R2508		VRE0034E512	M.RESISTOR CH1/10W 5.1K	1	
R2509		VRE0034E472	M.RESISTOR CH1/10W 4.7K	1	
R2510		ERJ6GMYJ105	M.RESISTOR CH1/10W 1M	1	
R2511		ERJ6GMYJ684	M.RESISTOR CH1/10W 680K	1	
R2513		ERJ6GMYG133	M.RESISTOR CH1/10W 13K	1	
R2514		ERJ6GMYG821	M.RESISTOR CH1/10W 820	1	
R2515		ERG12SJ561	M.RESISTOR 1/2W 560	1	
R2516		ERJ6GMYG473	M.RESISTOR CH1/10W 47K	1	
R2517		ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
R2518		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R2519		ERJ6GMYG432	M.RESISTOR CH1/10W 4.3K	1	
R2520		ERJ6GMYG103	M.RESISTOR CH1/10W 10K	1	
R2521-23		ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R2524		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R2525		EROS2CKG6800	M.RESISTOR 1/4W 680	1	
R2526		ERJ6GMYJ392	M.RESISTOR CH1/10W 3.9K	1	
R2527		ERJ6GMYJ105	M.RESISTOR CH1/10W 1M	1	
R2528		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R2529		ERJ6GMYJ392	M.RESISTOR CH1/10W 3.9K	1	
R2530		ERJ6GMYJ105	M.RESISTOR CH1/10W 1M	1	
R2531,32		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	2	
R2533		ERJ6GMYJ393	M.RESISTOR CH1/10W 39K	1	
R2534		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R2535		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R2536		ERJ6GMYJ824	M.RESISTOR CH1/10W 820K	1	
R2537		ERJ6GMYJ393	M.RESISTOR CH1/10W 39K	1	
R2538		ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R2539		ERJ6GMYJ681	M.RESISTOR CH1/10W 680	1	
R2540		ERJ6GMYJ105	M.RESISTOR CH1/10W 1M	1	
R2541		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	1	
R3001,02		ERJ6GMYJ750	M.RESISTOR CH1/10W 75	2	
R3003		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R3004		ERJ6GMYJ683	M.RESISTOR CH1/10W 68K	1	
R3005		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3006,07		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R3008		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3009		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3010		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3011		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3012		ERJ6GMYG911	M.RESISTOR CH1/10W 910	1	
R3013		ERJ6GMYG102	M.RESISTOR CH1/10W 1K	1	
R3014		ERJ6GMYG471	M.RESISTOR CH1/10W 470	1	
R3015		ERJ6GMYG102	M.RESISTOR CH1/10W 1K	1	
R3016		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3017		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3018		ERJ6GMYJ392	M.RESISTOR CH1/10W 3.9K	1	
R3019		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R3021		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3022		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R3023		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R3024		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	1	
R3025		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R3026,27		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R3301		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3302		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R3303		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3304		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R3305		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3306		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R3307		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3308		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3310		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3322		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R3323		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R3324		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3325,26		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R3327		ERJ6GMYJ821	M.RESISTOR CH1/10W 820	1	
R3328		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3333		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3334		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3335		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3336,37		ERJ6GMYJ681	M.RESISTOR CH1/10W 680	2	
R3338		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3339		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3340		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3341		ERJ6GMYJ563	M.RESISTOR CH1/10W 56K	1	
R3342		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R3345,46		ERJ6GMYJ821	M.RESISTOR CH1/10W 820	2	
R3347		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R3352		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3353		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
R3401		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3402		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R3403		ERJ6GMYG361	M.RESISTOR CH1/10W 360	1	
R3404		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3405		ERJ6GMYG123	M.RESISTOR CH1/10W 12K	1	
R3406		ERJ6GMYG512	M.RESISTOR CH1/10W 5.1K	1	
R3407		ERJ6GMYG272	M.RESISTOR CH1/10W 2.7K	1	
R3408		ERJ6GMYG302	M.RESISTOR CH1/10W 3K	1	
R3409		ERJ6GMYG821	M.RESISTOR CH1/10W 820	1	
R3410		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3411-13		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	3	
R3415		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3417		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3422		ERJ6GMYG333	M.RESISTOR CH1/10W 33K	1	
R3423		ERJ6GMYG683	M.RESISTOR CH1/10W 68K	1	
R3424		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3425		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R3426		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R3427		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3428		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R3429		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3430		ERJ6GMYJ823	M.RESISTOR CH1/10W 82K	1	
R3431		ERJ6GMYG821	M.RESISTOR CH1/10W 820	1	
R3433		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3434		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3435		ERJ6GMYG302	M.RESISTOR CH1/10W 3K	1	
R3436		ERJ6GMYG272	M.RESISTOR CH1/10W 2.7K	1	
R3437		ERJ6GMYG512	M.RESISTOR CH1/10W 5.1K	1	
R3438		ERJ6GMYG123	M.RESISTOR CH1/10W 12K	1	
R3441		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R3442		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3443		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R3444,45		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	2	
R3446,47		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R3463		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3464		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3465		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3466		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3467		ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R3468,69		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	2	
R3470		ERJ6GMYG123	M.RESISTOR CH1/10W 12K	1	
R3471		ERJ6GMYG512	M.RESISTOR CH1/10W 5.1K	1	
R3472		ERJ6GMYG272	M.RESISTOR CH1/10W 2.7K	1	
R3473		ERJ6GMYG302	M.RESISTOR CH1/10W 3K	1	
R3474		ERJ6GMYG821	M.RESISTOR CH1/10W 820	1	
R3475		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3476		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3477,78		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R3479		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3501		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3502		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3503		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3504,05		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R3506		ERJ6GMYJ104	M.RESISTOR CH1/10W 1M	1	
R3507		ERJ6GMYG103	M.RESISTOR CH1/10W 10K	1	
R3508		ERJ6GMYG332	M.RESISTOR CH1/10W 3.3K	1	
R3509-11		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	3	
R3513,14		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	2	
R3515		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3516		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3517		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3518		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3519		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3520		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3521		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3522		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3523		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3524		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3525		ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R3526		ERJ6GMYJ470	M.RESISTOR CH1/10W 47	1	
R3601		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3602		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3603		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3604		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3605		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R3606		ERJ6GMYJ821	M.RESISTOR CH1/10W 820	1	
R3607-12		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	6	
R3613		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R3614		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3615		ERJ6GMYJ681	M.RESISTOR CH1/10W 680	1	
R3616		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3901-05		ERJ6GMYJ750	M.RESISTOR CH1/10W 75	5	
R3906		ERDS1TJ750	C.RESISTOR 1/2W 75	1	
R3908,09		ERJ6GMYJ750	M.RESISTOR CH1/10W 75	2	
R3910,11		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	2	
R3913		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
R3914		ERJ6GMYJ750	M.RESISTOR CH1/10W 75	1	
R3915		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R3916,17		ERDS2TJ181	C.RESISTOR 1/4W 180	2	
R3926		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3927,28		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R3929		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3930		ERJ6GMYJ112	M.RESISTOR CH1/10W 1.1K	1	
R3931		ERJ6GMYJ123	M.RESISTOR CH1/10W 12K	1	
R3932		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R3933		ERJ6GMYJ104	M.RESISTOR CH1/10W 1M	1	
R3934		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R3935		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3936		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R3938		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3945		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R3946		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
R3950,51		ERJ6GMYJ331	M.RESISTOR CH1/10W 330	2	
R3953		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R3954		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3955		ERJ6GMYJ123	M.RESISTOR CH1/10W 12K	1	
R3956		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R3957-60		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	4	
R3961		ERJ6GMYJ750	M.RESISTOR CH1/10W 75	1	
R3962		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3963		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3964		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R3965		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3966		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3967		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3968		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4001,02		ERDS2TJ680	C.RESISTOR 1/4W 68	2	
R4003-08		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	6	
R4009		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R4010		ERJ6GMYG433	M.RESISTOR CH1/10W 43K	1	
R4011		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R4012		ERJ6GMYJ242	M.RESISTOR CH1/10W 2.4K	1	
R4013		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R4014		ERJ6GMYG100	M.RESISTOR CH1/10W 10	1	
R4015		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R4020		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R4021		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R4022		ERJ6GMYJ273	M.RESISTOR CH1/10W 27K	1	
R4028		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R4029,30		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R4033		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
R4034		ERJ6GMYG393	M.RESISTOR CH1/10W 39K	1	
R4035		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
R4036		ERJ6GMYG393	M.RESISTOR CH1/10W 39K	1	
R4501,02		ERJ3GEY0R00	M.RESISTOR CH1/16W 0	2	
R4503		ERJ3GEYG223	M.RESISTOR CH1/16W 22K	1	
R4504,05		ERJ3GEYJ393	M.RESISTOR CH1/16W 39K	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4506,07		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	2	
R4508		ERJ3GEYG224	M.RESISTOR CH1/16W 220K	1	
R4509		ERJ3GEYJ622	M.RESISTOR CH1/16W 6.2K	1	
R4511		ERJ3GEYG273	M.RESISTOR CH1/16W 27K	1	
R4512		VRE0071E163	M.RESISTOR CH1/16W 16K	1	
R4513		ERJ3GEYG103	M.RESISTOR CH1/16W 10K	1	
R4514,15		ERJ3GEYJ223	M.RESISTOR CH1/16W 22K	2	
R4518,19		ERJ3GEY0R00	M.RESISTOR CH1/16W 0	2	
R4522		ERJ3GEYJ225	M.RESISTOR CH1/16W 2.2M	1	
R4527		VRE0071E333	M.RESISTOR CH1/16W 33K	1	
R4528		VRE0071E153	M.RESISTOR CH1/16W 15K	1	
R4529		ERJ3GEYG562	M.RESISTOR CH1/16W 5.6K	1	
R4530		ERJ3GEYJ334	M.RESISTOR CH1/16W 330K	1	
R4534		ERJ3GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R4535		ERJ3GEYJ104	M.RESISTOR CH1/16W 100K	1	
R4539		ERJ3GEYJ104	M.RESISTOR CH1/16W 100K	1	
R4541		ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R4542		ERJ3GEYJ222	M.RESISTOR CH1/16W 2.2K	1	
R4543		ERJ3GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R4551,52		ERJ3GEYJ393	M.RESISTOR CH1/16W 39K	2	
R4553,54		ERJ3GEYJ273	M.RESISTOR CH1/16W 27K	2	
R4558		ERJ3GEYG224	M.RESISTOR CH1/16W 220K	1	
R4561		ERJ3GEYG273	M.RESISTOR CH1/16W 27K	1	
R4562		VRE0034E10C	M.RESISTOR CH1/10W	1	
R4563		ERJ3GEYG272	M.RESISTOR CH1/16W 2.7K	1	
R4568,69		ERJ3GEYJ273	M.RESISTOR CH1/16W 27K	2	
R4573		ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R4577		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	1	
R4578		VRE0071E473	M.RESISTOR CH1/16W 47K	1	
R4581		ERJ3GEYJ104	M.RESISTOR CH1/16W 100K	1	
R4583		ERJ3GEYJ102	M.RESISTOR CH1/16W 1K	1	
R4584		ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R4585		ERJ3GEY0R00	M.RESISTOR CH1/16W 0	1	
R4586		ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R4587,88		ERJ3GEYJ273	M.RESISTOR CH1/16W 27K	2	
R4591		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	1	
R4592		ERJ3GEYJ563	M.RESISTOR CH1/16W 56K	1	
R4593		ERJ3GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R4594		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	1	
R4596		ERJ3GEYG103	M.RESISTOR CH1/16W 10K	1	
R4597		ERJ3GEYJ103	M.RESISTOR CH1/16W 10K	1	
R4598,99		ERJ3GEYG223	M.RESISTOR CH1/16W 22K	2	
R4603		ERJ3GEYG183	M.RESISTOR CH1/16W 18K	1	
R4606		ERJ3GEYJ562	M.RESISTOR CH1/16W 5.6K	1	
R4610		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	1	
R4611		ERJ3GEYJ101	M.RESISTOR CH1/16W 100	1	
R4612		ERJ3GEYJ331	M.RESISTOR CH1/16W 330	1	
R4613		ERJ3GEYJ394	M.RESISTOR CH1/16W 390K	1	
R4615		ERJ3GEYJ133	M.RESISTOR CH1/16W 13K	1	
R4616		ERJ3GEYJ105	M.RESISTOR CH1/16W 1M	1	
R4638		ERJ3GEY0R00	M.RESISTOR CH1/16W 0	1	
R4649		ERJ3GEYJ470	M.RESISTOR CH1/16W 47	1	
R4651		ERJ3GEYJ101	M.RESISTOR CH1/16W 100	1	
R4652		ERJ3GEYJ223	M.RESISTOR CH1/16W 22K	1	
R4653		ERJ3GEYJ221	M.RESISTOR CH1/16W 220	1	
R4654		ERJ3GEYJ223	M.RESISTOR CH1/16W 22K	1	
R4655		ERJ3GEYJ562	M.RESISTOR CH1/16W 5.6K	1	
R4656		ERJ3GEYG243	M.RESISTOR CH1/16W 24K	1	
R4657		ERJ3GEYJ392	M.RESISTOR CH1/16W 3.9K	1	
R4666		ERJ3GEYJ471	M.RESISTOR CH1/16W 470	1	
R4671		ERJ3GEYG103	M.RESISTOR CH1/16W 10K	1	
R4701		ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	1	
R4702		ERJ6GMYJ821	M.RESISTOR CH1/10W 820	1	
R4703		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R4704,05		ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	2	
R4706		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R4707		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R4708		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4709		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R4710		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4711		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R4712		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R4713		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4714		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R4715		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4716		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4717		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R4718		ERJ6GMYG753	M.RESISTOR CH1/10W 75K	1	
R4719		ERJ6GMYG203	M.RESISTOR CH1/10W 20K	1	
R4720,21		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	2	
R4722		ERJ6GMYJ104	M.RESISTOR CH1/10W 1M	1	
R4723		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R4724,25		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	2	
R4901,02		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	2	
R4903,04		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	2	
R4905,06		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	2	
R4907,08		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	2	
R4909,10		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R4915-18		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	4	
R4921		ERJ6GMYG163	M.RESISTOR CH1/10W 16K	1	
R4922,23		ERJ6GMYG433	M.RESISTOR CH1/10W 43K	2	
R4924		ERJ6GMYG163	M.RESISTOR CH1/10W 16K	1	
R4925		ERJ6GMYG473	M.RESISTOR CH1/10W 47K	1	
R4926		ERJ6GMYG223	M.RESISTOR CH1/10W 22K	1	
R4929		ERJ6GMYG223	M.RESISTOR CH1/10W 22K	1	
R4930		ERJ6GMYG473	M.RESISTOR CH1/10W 47K	1	
R6001		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6002,03		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	2	
R6004		ER0S2CKG2000	M.RESISTOR 1/4W 200	1	
R6005		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R6006		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6007-09		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	3	
R6010,11		ERJ6GMYG223	M.RESISTOR CH1/10W 22K	2	
R6012		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6013		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6015,16		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6017		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6018		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6019		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6020,21		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6022-24		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	3	
R6025		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R6027		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R6028		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
R6029		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R6030		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R6031		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R6032,33		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	2	
R6034		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6035		ERJ6GMYJ104	M.RESISTOR CH1/10W 1M	1	
R6036		ERJ6GMYJ123	M.RESISTOR CH1/10W 12K	1	
R6037,38		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R6039,40		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	2	
R6041		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	1	
R6042		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	1	
R6044-49		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	6	
R6050		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6051		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	1	
R6052		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R6053		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R6054		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
R6055		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R6056,57		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	2	
R6058,59		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6060		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6061,62		ERJ6GMYJ683	M.RESISTOR CH1/10W 68K	2	
R6063		ERJ6GMYJ224	M.RESISTOR CH1/10W 220K	1	
R6064		ERJ6GMYJ104	M.RESISTOR CH1/10W 1M	1	
R6066		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6067		ERJ6GMYJ181	M.RESISTOR CH1/10W 180	1	
R6068-70		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	3	
R6071		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R6074		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R6075		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6076		ERJ6GMYJ563	M.RESISTOR CH1/10W 56K	1	
R6077		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6078		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6079		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6081		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R6082		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6083-86		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	4	
R6087,88		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	2	
R6089,90		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6091		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6092,93		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	2	
R6094		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6096		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R6097,98		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6099		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R6100		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6101		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6102,03		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	2	
R6104		ERJ6GMZ0R00	M.RESISTOR CH1/10W 0	1	
R6106,07		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R6108		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6109		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R6110		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6112		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6115		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6117		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6119,20		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6122		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6123		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R6124		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6125		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R7403		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R7407,08		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R7410-12		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	3	
R7413		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R7414-19		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	6	
R7420		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R7421-23		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	3	
R7425		ERJ6GMYJ154	M.RESISTOR CH1/10W 150K	1	
R7426		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R7427		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R7428		ERJ6GMYJ681	M.RESISTOR CH1/10W 680	1	
R7429		ERJ6GMYJ151	M.RESISTOR CH1/10W 150	1	
R7430		ERJ6GMYJ104	M.RESISTOR CH1/10W 1M	1	
R7431-34		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	4	
R7435		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R7436		ERG1SJ222	M.RESISTOR 1W 2.2K	1	
R7437,38		ERJ6GMYJ683	M.RESISTOR CH1/10W 68K	2	
R7439		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R7440,41		ERJ6GMYJ151	M.RESISTOR CH1/10W 150	2	
R7901		ERJ3GEYJ471	M.RESISTOR CH1/16W 470	1	
R7902		ERJ3GEYJ821	M.RESISTOR CH1/16W 820	1	
R7903		ERJ3GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R7904		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R7905		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R7906		ERJ6GEYJ150	M.RESISTOR CH1/10W 15	1	
R7907		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R7908		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R7909-11		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	3	
R7913-15		ERJ3GEYJ682	M.RESISTOR CH1/16W 6.8K	3	
R7917		ERJ3GEYJ103	M.RESISTOR CH1/16W 10K	1	
R7918-21		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	4	
R7922		ERJ3GEYJ563	M.RESISTOR CH1/16W 56K	1	
R7923		ERJ3GEYJ394	M.RESISTOR CH1/16W 390K	1	
R7924-26		ERJ3GEYJ103	M.RESISTOR CH1/16W 10K	3	
R7927		ERJ3GEYJ562	M.RESISTOR CH1/16W 5.6K	1	
R7928		ERJ3GEYJ102	M.RESISTOR CH1/16W 1K	1	
R7929		ERJ3GEYJ563	M.RESISTOR CH1/16W 56K	1	
R7930		ERJ3GEYJ394	M.RESISTOR CH1/16W 390K	1	
R7931-33		ERJ3GEYJ103	M.RESISTOR CH1/16W 10K	3	
R7934		ERJ3GEYJ562	M.RESISTOR CH1/16W 5.6K	1	
R7935		ERJ3GEYJ102	M.RESISTOR CH1/16W 1K	1	
R7936		ERJ3GEYJ223	M.RESISTOR CH1/16W 22K	1	
R7937		ERJ3GEYJ393	M.RESISTOR CH1/16W 39K	1	
R7938		ERJ3GEYJ222	M.RESISTOR CH1/16W 2.2K	1	
R7939		ERJ3GEYJ224	M.RESISTOR CH1/16W 220K	1	
R7940		ERJ3GEYJ181	M.RESISTOR CH1/16W 180	1	
R7941		ERJ3GEYJ681	M.RESISTOR CH1/16W 680	1	
R7942		ERJ3GEYJ393	M.RESISTOR CH1/16W 39K	1	
R7943		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	1	
R7944		ERJ3GEYJ392	M.RESISTOR CH1/16W 3.9K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7945		ERJ3GEYJ822	M.RESISTOR CH1/16W 8.2K	1	
R7946,47		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	2	
R7948		ERJ3GEYJ182	M.RESISTOR CH1/16W 1.8K	1	
R7949		ERJ3GEYJ822	M.RESISTOR CH1/16W 8.2K	1	
R7950		ERJ3GEYJ182	M.RESISTOR CH1/16W 1.8K	1	
R7951		ERJ3GEYJ822	M.RESISTOR CH1/16W 8.2K	1	
R7956		ERJ3GEYJ822	M.RESISTOR CH1/16W 8.2K	1	
R7957		ERJ3GEYJ182	M.RESISTOR CH1/16W 1.8K	1	
R7958,59		ERJ3GEYJ823	M.RESISTOR CH1/16W 82K	2	
R7960,61		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	2	
R7962,63		ERJ3GEYJ101	M.RESISTOR CH1/16W 100	2	
R7964		ERJ3GEYJ272	M.RESISTOR CH1/16W 2.7K	1	
R7969-72		ERJ3GEYJ101	M.RESISTOR CH1/16W 100	4	
R7973-77		ERJ3GEYJ103	M.RESISTOR CH1/16W 10K	5	
R7978		ERJ3GEYJ104	M.RESISTOR CH1/16W 100K	1	
R7979		ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R7980		ERJ3GEYJ104	M.RESISTOR CH1/16W 100K	1	
R7981,82		ERJ3GEYJ102	M.RESISTOR CH1/16W 1K	2	
R7983		ERJ3GEYJ103	M.RESISTOR CH1/16W 10K	1	
R7985		ERJ3GEYJ820	M.RESISTOR CH1/16W 82	1	
R7987		ERJ3GEYJ563	M.RESISTOR CH1/16W 56K	1	
R7988		ERJ3GEYJ121	M.RESISTOR CH1/16W 120	1	
R7989		ERDS2TJ823	C.RESISTOR 1/4W 82K	1	
RX3401		EXBF8E102J	COMBI.R-R	1	
SW3901		VSS0385	SWITCH	1	<R>
T0703		EQV5EC071A	TRANSFORMER	1	
T0704		EQV5EC072A	TRANSFORMER	1	
T0711		EQS5EC032A	TRANSFORMER	1	
T4701		VLT0695	TRANSFORMER	1	
T4702		VLT0696	TRANSFORMER	1	
TR		VJS3481	CONNECTOR (FEMALE)	1	
VR301		EVN49CA00B23	V.RESISTOR 2K	1	
VR302		EVN49CA00B13	V.RESISTOR 1K	1	
VR303		EVNCBAA00B13	V.RESISTOR 1K	1	
VR304		EVN49CA00B13	V.RESISTOR 1K	1	
VR0701		EVNCBAA00B24	V.RESISTOR 20K	1	
VR801,02		EVMEASA00B13	V.RESISTOR 1K	2	
VR803		EVMEASA00B14	V.RESISTOR 10K	1	
VR804		EVN49CA00B53	V.RESISTOR 5K	1	
VR2001-05		EVNCYAA03B54	V.RESISTOR 50K	5	
VR3001-03		EVNCYAA03B23	V.RESISTOR 2K	3	
VR3301		EVMEASA00B24	V.RESISTOR 20K	1	
VR3302		EVN49CA00B54	V.RESISTOR 50K	1	
VR3304,05		EVN49CA00B52	V.RESISTOR 500	2	
VR3307		EVN49CA00B54	V.RESISTOR 50K	1	
VR3901		EVMEASA00B24	V.RESISTOR 20K	1	
VR4002		EVNCYAA03B25	V.RESISTOR 200K	1	
VR4501		EVMECSA00B53	V.RESISTOR 5K	1	
VR4502		EVMEASA00BY4	V.RESISTOR	1	
VR4507		EVMEASA00BY4	V.RESISTOR	1	
VR4509		EVMECSA00BY3	V.RESISTOR	1	
VR4512		EVNCBAA00B52	V.RESISTOR 5K	1	
VR4550		EVMECSA00B14	V.RESISTOR 10K	1	
VR4551,52		EVMEASA00B55	V.RESISTOR 500K	2	
VR7901,02		EVNCBAA00B14	V.RESISTOR 10K	2	
VR7903		EVTEASA00B55	V.RESISTOR 500K	1	
X0701		VLF1180	FILTER	1	<R>

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
X0702	EFCS6R0MS5	CRYSTAL OSCILLATOR	1	<R>
X0703	EFCS6M65MW3B	FILTER	1	<R>
X0704	VLF1174	FILTER	1	<R>
X801	VSX0406	CRYSTAL OSCILLATOR	1	<R>
X3302	EF0GC3584A5	CRYSTAL OSCILLATOR	1	<R>
X3501	VSX0574	CRYSTAL OSCILLATOR	1	<R>
X6001	VSX0583	CRYSTAL OSCILLATOR	1	<R>
X6002	EF0EC7374A4E	CERAMIC RESONATOR	1	<R>
X7001	VSQ0565	CRYSTAL OSCILLATOR	1	<R>
X7401	VSX0561	CRYSTAL OSCILLATOR	1	<R>
X7901	VSX0513	CRYSTAL OSCILLATOR	1	<R>
X7902	VSX0512	CRYSTAL OSCILLATOR	1	<R>
X7903	EFCA6004BF	CRYSTAL OSCILLATOR	1	<R>
		MISCELLANEOUS		
	VEE9262	WIRE CABLE	1	(P3801-P3004)
	VJH0827	RF ANT TERMINAL L PLATE	1	
	ENG47211G	TUNER	1	
	VEE8682	WIRE CABLE	1	(P1001-P1102)
	VEE8683	WIRE CABLE	1	(P1002-P1103)
	VEE8688	WIRE CABLE	1	(P2001-P2902)
	VEE9001	WIRE CABLE	1	(POWER TR. -P2003)
	VEE8685	WIRE CABLE	1	(P4002-P6502)
	VEE8686	WIRE CABLE	1	(P6003-P7504)
	VEE8837	WIRE CABLE	1	(P3002-P7503)
	VWJ0775	FLAT CABLE	1	(P2004-P1507)
	VWJ0776	FLAT CABLE	1	(P3001-P501)
	VWJ0778	FLAT CABLE	1	(P7401-P7501)
	VWJ0801	FLAT CARD CABLE	1	(P7402-P7502)
	VMA6768	EARTH ANGLE	1	
	VJF1031	CLAMPER	1	
	XTV3+10J	SCREW	2	
	VEE9669	CONNECTION CABLE	1	(P4003-P1509)
	XTV3+8J	SCREW	1	
	VEE8834	WIRE CABLE	1	(P3003-P9001)
	VEE8835	WIRE CABLE	1	(P6004-P9002)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP06B45A	P.C.BOARD W/COMPONENT		
		VR		
C6501,02	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	2	
C6503,04	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6505	ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C6506	VCEA1HAC3R3	E.CAPACITOR 50V 3.3U	1	
C6507	ECEA1AKA330	E.CAPACITOR 10V 33U	1	
C6508	ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C6509	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6510	ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6511-14	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C6515,16	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C6518	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C6519	ECKF1H472KB	C.CAPACITOR 50V 4700P	1	
C6701	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6702	ECUM1E333KBN	C.CAPACITOR CH 25V 0.033U	1	
C6703	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
D6701	PD410TN1	DIODE	1	<R>
IC6501	VCR0172	IC	1	<R>
IC6701	UPC2800AGR	IC	1	<R>
IR6501	VEK6407	IR RECEIVER	1	
L6501,02	ELESE471KA	COIL 470UH	2	
L6503,04	ELESE221KA	COIL 220UH	2	
L6506,07	ELESE101KA	COIL 100UH	2	
LB6501	VLP0145	COIL	1	
LB6502	VLP0150	COIL	1	
P6502	VJP1251T	CONNECTOR (MALE) 11P	1	
PS6501,02	VJS3405A011A	CONNECTOR (FEMALE) 11P	2	
R6501	ERJ6GEYG332	M.RESISTOR CH1/10W 3.3K	1	
R6502	ERJ6GEYG331	M.RESISTOR CH1/10W 330	1	
R6503,04	ERJ6GEYG271	M.RESISTOR CH1/10W 270	2	
R6505	ERJ6GEYG332	M.RESISTOR CH1/10W 3.3K	1	
R6506	ERJ6GEYG331	M.RESISTOR CH1/10W 330	1	
R6508,09	ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	2	
R6511	ERDS2TYJ470	C.RESISTOR 1/4W 47	1	
R6701	ERJ6ENF1363	M.RESISTOR CH1/10W 36K	1	
S6501,02	EVQ11409K	SWITCH	2	<R>
VR6501	EWAKABX15C23	V.RESISTOR 2K	1	
VR6502	EWAKFKX15B24	V.RESISTOR 20K	1	
VR6503	EWANYJX1054J	V.RESISTOR	1	
		MISCELLANEOUS		
	VEJ1429	FRONT JACK	1	
	VYC0599	REC VR COVER U.	1	
	VGU4495	REC VR KNOB	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP07739AC	P.C.BOARD W/COMPONENT		
		TIMER		
C1701	ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C1702	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1703	ECKD2H471KB	C.CAPACITOR 500V 470P	1	
C1704	ECEA1VKA220	E.CAPACITOR 35V 22U	1	
C1705	ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1706	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7501	ECRHC030E11	TRIMMER 3P	1	
C7502	ECEA0JKS330	E.CAPACITOR 6.3V 33U	1	
C7503	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7504	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C7505,06	ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	2	
C7507,08	ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	2	
C7509	ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C7510	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C7511	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7512	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7513	ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C7514,15	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7517	ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C7518	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7519-30	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	12	
C7531,32	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7533-36	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	4	
C7537	ECEA1HKA220	E.CAPACITOR 50V 22U	1	
C7538	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7539	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
D1701	MA1270-H	DIODE	1	<R>
D1702	MA185	DIODE	1	<R>
D7501	MA3075	DIODE	1	<R>
D7502-06	MA221	DIODE	5	<R>
D7510	MA221	DIODE	1	<R>
D7512	MA221	DIODE	1	<R>
D7514	MA221	DIODE	1	<R>
D7516-18	MA221	DIODE	3	<R>
D7520-22	MA221	DIODE	3	<R>
D7526	MA221	DIODE	1	<R>
D7534	MA221	DIODE	1	<R>
D7546-53	MA221	DIODE	8	<R>
D7556-60	LN81RCPHL	LED	5	<R>
D7562,63	MA221	DIODE	2	<R>
DP7501	VSL0276	DISPLAY TUBE	1	
IC7501	M37502V4CF	IC	1	<R>
IC7502	PST7026	IC	1	<R>
IC7503	XLJ9021B	IC	1	<R>
IC7504	PST7043	IC	1	<R>
IC7505	BA6810S	IC	1	<R>
K7502	ERJ6GMZOR00	M.RESISTOR CH1/10W 0	1	
K7504,05	ERJ6GMZOR00	M.RESISTOR CH1/10W 0	2	
L7501	VLQEL05S101K	COIL 100UH	1	
L7502	VLQ0188J330	COIL 33UH	1	
P7501,02	VJS3537A020G	CONNECTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P7503	VJP32348010	CONNECTOR (MALE) 10P	1	
P7504	VJP1246T	CONNECTOR (MALE) 6P	1	
P7505,06	VJS2183	CONNECTOR (FEMALE)	2	
PP7501,02	VJP3405A011W	CONNECTOR (MALE) 11P	2	
Q1701	2SD1994AVT	TRANSISTOR	1	<R>
Q7501,02	MSD601	TRANSISTOR	2	<R>
QR7501,02	MRN2403	TRANSISTOR-RESISTOR	2	<R>
QR7503	MRN2402	TRANSISTOR-RESISTOR	1	<R>
QR7506	MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR7507	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR7508-11	MRN2404	TRANSISTOR-RESISTOR	4	<R>
QR7512-14	MRN2403	TRANSISTOR-RESISTOR	3	<R>
R1701	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R1702	ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R1703	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R7501,02	ERJ6GEYJ820	M.RESISTOR CH1/10W 82	2	
R7503	ERJ6GEYG223	M.RESISTOR CH1/10W 22K	1	
R7504	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R7505-07	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	3	
R7508	ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R7509	ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R7510	ERJ6GEYK106	M.RESISTOR CH1/10W 10M	1	
R7511	ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R7512,13	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R7514-16	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	3	
R7517,18	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R7519-22	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	4	
R7525,26	ERJ6GEYJ471	M.RESISTOR CH1/10W 470	2	
R7527-29	ERJ6GMZOR00	M.RESISTOR CH1/10W 0	3	
R7531-41	ERJ6GEYJ221	M.RESISTOR CH1/10W 220	11	
R7542-56	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	15	
R7557-59	ERJ6GEYJ681	M.RESISTOR CH1/10W 680	3	
R7560-62	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R7564	ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R7565	ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R7566	ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R7567	ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R7568	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7569	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R7570	ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R7571	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7572	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R7573	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7574	ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
RX7501,02	EXBF6E104J	COMBI.R-R	2	
RX7503	EXBF8E104J	COMBI.R-R	1	
SW7501	ESD172255	SWITCH	1	<R>
SW7502,03	ESD172355	SWITCH	2	<R>
SW7504-07	ESD172255	SWITCH	4	<R>
SW7508,09	ESD172355	SWITCH	2	<R>
SW7510	ESD172255	SWITCH	1	<R>
T1701	ETE13K80AY	TRANSFORMER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR4004		EVNCBAA00B53	V.RESISTOR 5K	1	
X7501		VSX0506	CRYSTAL OSCILLATOR	1	<R>
X7502		VSX0094	CRYSTAL OSCILLATOR	1	<R>
			MISCELLANEOUS		
		VMD0504	HOLDER	5	
		VJF1043	VR HOLDER	1	
		VEX0235	P.C.BOARD W/COMPONENT		
			CYLINDER DRIVE		
C2901-03		ECEA1VSN2R2	E.CAPACITOR 35V 2.2U	3	
C2904-06		ECUM1E104KBM	C.CAPACITOR CH 25V 0.1U	3	
C2907		ECUM1E683KBM	C.CAPACITOR CH 25V 0.068U	1	
C2908		ECUM1E473KBM	C.CAPACITOR CH 25V 0.047U	1	
C2910		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C2912		ECEA0JKS220	E.CAPACITOR 6.3V 22U	1	
IC2901		AN3815K	IC	1	<R>
P2901		VJP2603W	CONNECTOR (MALE)	1	
P2902		VJP1232T	CONNECTOR (MALE) 5P	1	
R2901		ERX12SJR47	M.RESISTOR CH 1/2W 0.47	1	
			MISCELLANEOUS		
		VMA9138	MAIN HOLDER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP03A53A	P.C.BOARD W/COMPONENT		
			TBC		
C9001		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9002		ECWM1H473JZ	F.CAPACITOR 50V 0.047U	1	
C9003		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C9004		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C9005		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9006		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C9007		ECWM1H473JZ	F.CAPACITOR 50V 0.047U	1	
C9008		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9009		ECWM1H473JZ	F.CAPACITOR 50V 0.047U	1	
C9010		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C9011		ECWM1H333KZ	F.CAPACITOR 50V 0.033U	1	
C9012		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C9013		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C9014		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C9015		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9016		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C9017		ECQB1H223KF	P.CAPACITOR 50V 0.022U	1	
C9018		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C9019		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9020,21		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	2	
C9022		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C9023		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9024		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C9025		ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C9026		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C9027		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9028		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9029		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9030		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C9031,32		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C9033		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C9034		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C9035		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9036,37		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	2	
C9038		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9039		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C9040		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9041		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9042		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9043-50		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	8	
C9051		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C9052		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9054		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9055		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C9056		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9057		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C9058		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9059		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C9060		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C9061		ECUM1H020CCN	C.CAPACITOR CH 50V 2P	1	
C9062		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C9063		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C9064		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9065		ECUM1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C9066		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9067-70		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C9071		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9072		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9073		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9076		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9077		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C9078		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9079		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9080		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9081,82		ECEA0JKA470	E.CAPACITOR 6.3V 47U	2	
C9083,84		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C9085,86		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C9087		ECEA1CKA100	E.CAPACITOR 16V 10U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C9088		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9089		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9098-00		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C9101		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C9102		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C9103		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C9501		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9502,03		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C9504		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C9505		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9506		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C9507,08		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C9509,10		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C9511		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C9512		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C9513		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C9514		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C9515		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9516		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C9517		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C9518		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C9519		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C9520-22		ECEA1CKA100	E.CAPACITOR 16V 10U	3	
C9523,24		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C9525,26		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
D9501		1SS254	DIODE	1	<R>
FL9001-05		VLF0633	FILTER	5	
FL9006		VLF0634	FILTER	1	
FL9007		ELKAW103EB	FILTER	1	
FL9008		VLF0634	FILTER	1	
FL9009		VLF0839	FILTER	1	
FL9010		VLF0838	FILTER	1	
FL9011		VLF0874	FILTER	1	
FL9012		VLF0855	FILTER	1	
FL9013		ELB4P034	FILTER	1	
FL9014		VLF0875	FILTER	1	
FL9015-18		VLF0634	FILTER	4	
FL9019-21		VLF0630	FILTER	3	
FL9022-26		ELKAW103EB	FILTER	5	
FL9501		ELB4H054	FILTER	1	
IC9001		AN3942SB	IC	1	<R>
IC9002		AN3496S	IC	1	<R>
IC9003		MN74HC4066S	IC	1	<R>
IC9004		HA19211BNT	IC	1	<R>
IC9006		AN3915S	IC	1	<R>
IC9007		SC371020FU	IC	1	<R>
IC9008		SC371026FU	IC	1	<R>
IC9501		CXL1009P	IC	1	<R>
IC9502		AN78L09	IC	1	<R>
IC9503		M52055FP	IC	1	<R>
K9001		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K9004		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K9006,07		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
K9010,11		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
K9014		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K9016		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K9018,19		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
L9001		VLQEL05S220J	COIL 22UH	1	
L9002,03		ELESE101KA	COIL 100UH	2	
L9004		ELESN680KA	COIL 68UH	1	
L9005		ELESN270KA	COIL 27UH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L9006	VLQ0188J2R2	COIL 2.2UH	1	
L9007	ELESE101KA	COIL 100UH	1	
L9008,09	VLQ0188J2R2	COIL 2.2UH	2	
L9010	VLQ0188J6R8	COIL 6.8UH	1	
L9011-14	VLQ0188J2R2	COIL 2.2UH	4	
L9018,19	VLP0054	COIL	2	
L9024	VLP0054	COIL	1	
L9501	ELESE101KA	COIL 100UH	1	
L9502	VLP0054	COIL	1	
L9503	VLP0053	COIL	1	
L9504,05	ELESE101KA	COIL 100UH	2	
L9506	VLP0054	COIL	1	
P9001	VJP1393T	CONNECTOR (MALE)	1	
P9002	VJP1235T	CONNECTOR (MALE)	1	
Q9001	MSB709	TRANSISTOR	1	<R>
Q9003,04	MSD601	TRANSISTOR	2	<R>
Q9006-09	MSD601	TRANSISTOR	4	<R>
Q9010,11	MSB709	TRANSISTOR	2	<R>
Q9012	MSD601	TRANSISTOR	1	<R>
Q9013	MSB709	TRANSISTOR	1	<R>
Q9014	2SA1022	TRANSISTOR	1	<R>
Q9015	MSD601	TRANSISTOR	1	<R>
Q9016	MSC2295	TRANSISTOR	1	<R>
Q9017	MSD601	TRANSISTOR	1	<R>
Q9018	MSB709	TRANSISTOR	1	<R>
Q9019	MSD601	TRANSISTOR	1	<R>
Q9020	MSC2295	TRANSISTOR	1	<R>
Q9021	MSD601	TRANSISTOR	1	<R>
Q9022	MSB709	TRANSISTOR	1	<R>
Q9023	MSD601	TRANSISTOR	1	<R>
Q9024	MSB709	TRANSISTOR	1	<R>
Q9025	MSD601	TRANSISTOR	1	<R>
Q9026,27	MSB709	TRANSISTOR	2	<R>
Q9501,02	MSC2295	TRANSISTOR	2	<R>
Q9503	MSB709	TRANSISTOR	1	<R>
Q9504	MSD601	TRANSISTOR	1	<R>
Q9505	MSB709	TRANSISTOR	1	<R>
Q9506	MSD601	TRANSISTOR	1	<R>
Q9507	MSB709	TRANSISTOR	1	<R>
QR9001	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR9004	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR9007	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR9010	MRN1404	TRANSISTOR-RESISTOR	1	<R>
R9001-04	ERJ6GMYJ101	M.RESISTOR CH1/10W 100	4	
R9005	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9006	ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R9007,08	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R9009	ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R9010-17	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	8	
R9021-23	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	3	
R9024	ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R9027-29	ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	3	
R9030	ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	1	
R9031	ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R9032	ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R9037	ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R9038	ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R9039	ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9040	ERJ6GMYJ681	M.RESISTOR CH1/10W 680	1	
R9041	ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R9042	ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R9043	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9044	ERJ6GMYJ681	M.RESISTOR CH1/10W 680	1	
R9045	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9046	ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R9047,48	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R9049	ERJ6GMYJ683	M.RESISTOR CH1/10W 68K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R9050	ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R9051,52	ERJ6GMYJ683	M.RESISTOR CH1/10W 68K	2	
R9053	ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R9054,55	ERJ6GMYJ683	M.RESISTOR CH1/10W 68K	2	
R9056	ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9057	ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R9058	ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R9059,60	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R9061	ERJ6GMYJ681	M.RESISTOR CH1/10W 680	1	
R9062	ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R9063	ERJ6GMYJ202	M.RESISTOR CH1/10W 2K	1	
R9064	ERJ6GMYJ132	M.RESISTOR CH1/10W 1.3K	1	
R9065	ERJ6GMYJ432	M.RESISTOR CH1/10W 4.3K	1	
R9066	ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	1	
R9067	ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R9068-70	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	3	
R9071	ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R9072	ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R9073	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9074	ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R9075	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9076	ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R9077	ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R9078	ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R9079	ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R9080,81	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R9082	ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R9084	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9087	ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9088	ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R9093	ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9094	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9095	ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R9096	ERJ6GMYJ123	M.RESISTOR CH1/10W 12K	1	
R9097	ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R9098	ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R9099	ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R9100,01	ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R9104	ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9105	ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R9106	ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R9107	ERJ6GMYJ392	M.RESISTOR CH1/10W 3.9K	1	
R9108,09	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R9501,02	ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	2	
R9503,04	ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R9505	ERJ6GMYJ105	M.RESISTOR CH1/10W 1M	1	
R9506	ERJ6GMYJ224	M.RESISTOR CH1/10W 220K	1	
R9507	ERJ6GMYJ681	M.RESISTOR CH1/10W 680	1	
R9508	ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R9509-13	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	5	
R9514,15	ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	2	
R9516	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9517,18	ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	2	
R9519	ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R9520	ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
VR9001	EVMF6SA00B23	V.RESISTOR 2K	1	
VR9002	EVNCYAA03B54	V.RESISTOR 500K	1	
VR9003	EVMF6SA00B13	V.RESISTOR 1K	1	
VR9004	EVNCYAA03B24	V.RESISTOR 20K	1	
VR9005,06	EVMF6SA00B14	V.RESISTOR 10K	2	
VR9007	EVMF6SA00B13	V.RESISTOR 1K	1	
VR9501	EVMF6SA00B23	V.RESISTOR 2K	1	
X9002	VSX0617	CRYSTAL OSCILLATOR	1	<R>
X9501	VSX0323	CRYSTAL OSCILLATOR	1	<R>
		MISCELLANEOUS		
	VSC4116	SHIELD CASE (MAIN)	1	
	VSC3620	SHIELD CASE (BOTTOM)	1	
	VSC3618	SHIELD CASE (TOP)	1	
	XTN3+6F	SCREW	4	
	VMX1921	SPACER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP03A63A	P.C.BOARD W/COMPONENT		
		VITC		
		CAPACITORS		
C3801	ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3802	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3803	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3804	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3805	ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3806	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3807	ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3808,09	ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C3810	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3811	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3812	ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3813	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3814	ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3815	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C3816	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3817	ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3818	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3819,20	ECUM1H060DCN	C.CAPACITOR CH 50V 6P	2	
C3821	ECWM1H682JZ	F.CAPACITOR 50V 6800P	1	
C3822	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3823	ECEA1AKA330	E.CAPACITOR 10V 33U	1	
C3824	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3825	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3826	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3827	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3828	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C3829	ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C3830	ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C3831	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3832	ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C3833	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
D3801	1SS254	DIODE	1	<R>
IC3801	MN1870824H3A	IC	1	<R>
IC3802	PST7043	IC	1	<R>
IC3803	BA7062F	IC	1	<R>
IC3804	NJM2235MA	IC	1	<R>
IC3805	UPC311G2	IC	1	<R>
IC3806	AN3916	IC	1	<R>
IC3807	UPC393G2	IC	1	<R>
K3801,02	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	2	
K3804	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
L3801,02	ELESE101KA	COIL 100UH	2	
L3803	ELESE221KA	COIL 220UH	1	
P3801	VJP1393T	CONNECTOR (MALE)	1	
Q3801,02	MSD601	TRANSISTOR	2	<R>

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
		RESISTORS		
R3801	ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R3802	ERJ6GEYG123	M.RESISTOR CH1/10W 12K	1	
R3803,04	ERJ6GEYG103	M.RESISTOR CH1/10W 10K	2	
R3805	ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3806	ERJ6GEYG242	M.RESISTOR CH1/10W 2.4K	1	
R3807	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3808	ERJ6GEYJ334	M.RESISTOR CH1/10W 330K	1	
R3809	ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3810	ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R3811	ERJ6GEYJ474	M.RESISTOR CH1/10W 470K	1	
R3812	ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R3813	ERJ6GEYJ474	M.RESISTOR CH1/10W 470K	1	
R3814	ERJ6GEYG134	M.RESISTOR CH1/10W 130K	1	
R3815	ERJ6GEYG821	M.RESISTOR CH1/10W 820	1	
R3816	ERJ6GEYG182	M.RESISTOR CH1/10W 1.8K	1	
R3817	ERJ6GEYG822	M.RESISTOR CH1/10W 8.2K	1	
R3818	ERJ6GEYG362	M.RESISTOR CH1/10W 3.6K	1	
R3819,20	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R3821	ERJ6GEYG102	M.RESISTOR CH1/10W 1K	1	
R3822	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3823	ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R3824	ERJ6GEYG333	M.RESISTOR CH1/10W 33K	1	
R3825	ERJ6GEYG103	M.RESISTOR CH1/10W 10K	1	
R3826-28	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	3	
R3829-31	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R3832,33	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R3834,35	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	2	
R3836	ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3837	ERJ6GEYJ472	M.RESISTOR CH1/10W 4.7K	1	
R3838	ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R3839	ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R3840	ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
VR3801	EVMEASA00B24	V.RESISTOR 20K	1	
X3801	VSX0389	CRYSTAL OSCILLATOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP05176G	P.C.BOARD W/COMPONENT		
			HEAD AMP		
			CAPACITORS		
C503		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C505-08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C509		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C510,11		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C512		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C513		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C514		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C515,16		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C517,18		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C519,20		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C521		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C523-25		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C526		VCEA0JAC221	E.CAPACITOR 6.3V 220U	1	
C527		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C531		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C532		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C533,34		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	2	
C535		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C536		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C537		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C538,39		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	2	
C540		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C551		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C552-54		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C555		ECEA0JPK221	E.CAPACITOR 6.3V 220U	1	
C556,57		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C559		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C560,61		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
C562,63		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C564		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C565		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C566		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C567		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C569		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
IC501		AN3336SB	IC	1	<R>
IC502		AN3370K	IC	1	<R>
IC551		BA7743FS	IC	1	<R>
K501		VLP0145	COIL	1	
K502		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K503,04		VLP0145	COIL	2	
K505		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K506		VLP0145	COIL	1	
K552		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L501-03		VLQ0540K330	COIL 33UH	3	
L504		VLQ0540J5R6	COIL 5.6UH	1	
L551,52		VLQ0540K330	COIL 33UH	2	
P501		VJS3537B020G	CONNECTOR (FEMALE)	1	
P502		VJS2603	CONNECTOR (FEMALE)	1	
Q501		MSB709	TRANSISTOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q502		MSD601	TRANSISTOR	1	<R>
QR501		MRN2404	TRANSISTOR-RESISTOR	1	<R>
			RESISTORS		
R501		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R502		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R503		ERJ6GMYG752	M.RESISTOR CH1/10W 7.5K	1	
R504		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R505		ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R506		ERJ6GMYJ392	M.RESISTOR CH1/10W 3.9K	1	
R507		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R508		ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R509-12		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	4	
R513		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R514		ERJ6GMYJ274	M.RESISTOR CH1/10W 270K	1	
R517		ERJ6GMYJ100	M.RESISTOR CH1/10W 10	1	
R518,19		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	2	
R520		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R521,22		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	2	
R523		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R524		VRE0034E182	M.RESISTOR CH 1/10W 1.8K	1	
R525		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R526		ERJ6GMYG133	M.RESISTOR CH1/10W 13K	1	
R551		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R552		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R553		ERJ6GMYJ273	M.RESISTOR CH1/10W 27K	1	
R554		ERJ6GMYJ243	M.RESISTOR CH1/10W 24K	1	
R556		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R557		ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R558		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R559,60		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	2	
R561		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R562		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R563		VRE0034E100	M.RESISTOR CH 1/10W 10	1	
R564		ERJ6GMYJ224	M.RESISTOR CH1/10W 220K	1	
R565		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R566		ERJ6GMYJ273	M.RESISTOR CH1/10W 27K	1	
R567		ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	1	
R568		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	1	
R569		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R570		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
W105-08		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	4	
W110-14		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	5	
W115		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
W116,17		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
			MISCELLANEOUS		
		VSC3714	SHIELD CASE (TOP)	1	
		VSC3478	SHIELD CASE (MAIN)	1	
		VSC3715	SHIELD CASE (BOTTOM)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP01558C	P.C.BOARD W/COMPONENT		
		POWER		
		CAPACITORS		
C1103	VCC0021	C.CAPACITOR	1	<!>
C1106	VCC0021	C.CAPACITOR	1	<!>
C1109	VCC0023	C.CAPACITOR	1	<!>
C1110	ECQU2A224MN	P.CAPACITOR 250V 0.22U	1	<!>
C1111	ECQU2A154MNB	P.CAPACITOR 250V 0.15U	1	<!>
C1112	ECEC2GG680	E.CAPACITOR 400V 68U	1	
C1113	ECQE6473KF	P.CAPACITOR 50V	1	
C1114	VCK0106K121	C.CAPACITOR	1	
C1115	ECA1VXLV470	E.CAPACITOR 35V 47U	1	
C1116	ECA1CXLV101	E.CAPACITOR 16V 100U	1	
C1117	ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C1118	ECKF1H271KB	C.CAPACITOR 50V 270P	1	
C1121	ECCD2H101J	C.CAPACITOR 500V 100P	1	
C1123	ECEA1JFE560	E.CAPACITOR 56U	1	
C1124	ECEA1CFE331	E.CAPACITOR 16V 330U	1	
C1125	ECEA1DFZ681	E.CAPACITOR 680U	1	
C1126	ECEA1AFZ681	E.CAPACITOR 10V 680U	1	
C1127	ECEA1JFE470	E.CAPACITOR 47U	1	
C1128	ECEA1CFE121	E.CAPACITOR 16V 120U	1	
C1129	ECEA1DFZ681	E.CAPACITOR 680U	1	
C1130	ECEA1AFZ681	E.CAPACITOR 10V 680U	1	
C1131-34	ECKF1H102ZF	C.CAPACITOR 50V 1000P	4	
C1135,36	ECA1CGE101X	E.CAPACITOR 16V 100U	2	
C1139	ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1140,41	ECA1CGE101X	E.CAPACITOR 16V 100U	2	
D1102	EM1B	DIODE	1	<R><!>
D1103	AP01C	DIODE	1	<R>
D1104	MA178	DIODE	1	<R>
D1105	1SS254	DIODE	1	<R>
D1106	MA4200H	DIODE	1	<R>
D1107	MA723VT	DIODE	1	<R>
D1108	10ELS2	DIODE	1	<R>
D1109	MA185	DIODE	1	<R>
D1110	FMLG12SP	DIODE	1	<R>
D1111	FMBG14L	DIODE	1	<R>
D1112	SV03YS	DIODE	1	<R>
D1115-17	EM1B	DIODE	3	<R>
D1118	MA4056-L	DIODE	1	<R>
D1119	1SS254	DIODE	1	<R>
D1120	MA4120-H	DIODE	1	<R>
D1121,22	1SS254	DIODE	2	<R>
IC1101	STRM6547LF	IC	1	<R><!>
IC1103	SI3120C	IC	1	<R>
IC1104	SI-3050CA	IC	1	<R>
L1101,02	ELF18D221F	COIL 220UH	2	<!>
L1107-09	EXCELSA35	COIL	3	
L1110	VLP0074	COIL	1	
L1111,12	ELESE101KA	COIL 100UH	2	
L1113,14	ELC07B009	COIL	2	
L1115,16	VLP0083	COIL	2	
P1101	VJS2625	CONNECTOR (FEMALE)	1	<!>
P1102	VJP1930T	CONNECTOR (MALE)	1	
P1103	VJP1149	CONNECTOR (MALE)	1	
Q1101	PC120FY	TRANSISTOR	1	<R><!>
Q1102	2SD1996-R	TRANSISTOR	1	<R>
		RESISTORS		
R1101	ERC12AGM334	S.RESISTOR 1/2W 330K	1	<!>
R1102	VRE0087	M.RESISTOR	1	
R1103	ERG3SJ823	M.RESISTOR 3W 82K	1	
R1104,05	ERDS2FJ224	C.RESISTOR 1/4W 220K	2	
R1106	ERDS2FJ221	C.RESISTOR 1/4W 220	1	
R1109	ERDS2FJ561	C.RESISTOR 1/4W 560	1	
R1110	ERDS2FJ391	C.RESISTOR 1/4W 390	1	
R1111	ERX1SJ1R5	M.RESISTOR 1W 1.5	1	
R1112	ERDS2FJ103	C.RESISTOR 1/4W 10K	1	
R1113	ERDS2FJ682	C.RESISTOR 1/4W 6.8K	1	
R1114	ERDS2FJ101	C.RESISTOR 1/4W 100	1	
R1115	ERDS2TJ271	C.RESISTOR 1/4W 270	1	
R1122	EROS2CKG62R0	M.RESISTOR 1/4W 62.0	1	
R1123	EROS2CKG3001	M.RESISTOR 1/4W 3K	1	
R1124	EROS2CKG20R0	M.RESISTOR 1/4W 20.0	1	
R1125	EROS2CKG1201	M.RESISTOR 1/4W 1.2K	1	
R1126	ERDS1TJ562	C.RESISTOR 1/2W 5.6K	1	
R1127	ERDS2FJ224	C.RESISTOR 1/4W 220K	1	
T1101	VLT0718	TRANSFORMER	1	
		MISCELLANEOUS		
	VJF0318	FUSE HOLDER	2	<!>
	VMZ2212	CAPACITOR COVER	3	<!>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP00T87A	P.C.BOARD W/COMPONENT		
			MECHANISM CONNECTION		
D1501		LN59L.VT	DIODE	1	<R>
IC1501,02		ON1387	IC	2	<R>
P1503		VJS3316A002	CONNECTOR (FEMALE)	1	
P1504		VJS3317A004	CONNECTOR (FEMALE)	1	
P1505		VJS3537B014G	CONNECTOR (FEMALE)	1	
Q1501		PT493F1MN	TRANSISTOR	1	<R>
Q1502		PN205L-NC.VT	TRANSISTOR	1	<R>
SW1501		VES0695	SWITCH	1	<R>
SW1502		VST0176	SWITCH	1	<R>
			MISCELLANEOUS		
		VMD2029	REEL GUIDE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks

ORDER NO. VSD9402M632

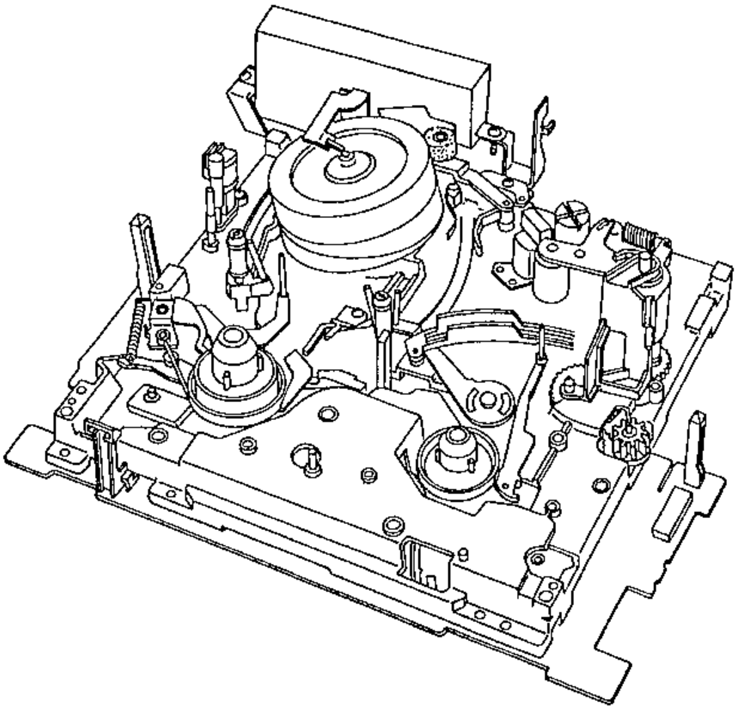
Service Manual

Video Cassette Recorder

VHS
PAL

- Sec. 1 *General Information*
- Sec. 2 *Maintenance Procedures*
- Sec. 3 *Mechanical Adjustment Procedur*
- Sec. 4 *Assembly & Phase Adjustment Procedure*

K-MECHANISM



IMPORTANT

The K-MECHANISM chassis are built in several Panasonic SVHS／VHS Video Cassette Recorder.

Thus, Properly file this service manual with the service manual of the relative video cassette recorder.

Panasonic

INTRODUCTION

This Service Manual contains the technical information which service personnel to understand and service the K-Mechanism.
The Maintenance Chart, Mechanical Parts List and Mechanical Specification, please refer to the service manual of each model.

CONTENTS

SECTION 1 GENERAL INFORMATION 1-1
- 1-1. FEATURE of K MECHANISM 1-1
  - 1-1-1. Parts Reduction 1-1
  - 1-1-2. No Adjustment of the following is required 1-1
  - 1-1-3. Reduced Gear Phase Position Alignments 1-1
- 1-2. OPERATION of K-MECHANISM 1-1
- 1-3. EMERGENCY CASSETTE REMOVAL 1-1
- 1-4. EJECT OPERATION 1-2
- 1-5. REMOVAL of MECHANISM 1-2
  - 1-5-1. Removal of Top Plate 1-2
  - 1-5-2. Removal of Mechanism Chassis 1-3
  - 1-5-3. Removal of Mechanism Connection C.B.A. 1-3
- 1-6. SERVICE FIXTURES AND TOOLS 1-4
- 1-7. Mechanical Parts Location 1-5

SECTION 2 MAINTENANCE PROCEDURE 2-1
- 2-1. Replacement of the Upper Cylinder Unit 2-1
- 2-2. Replacement of Cylinder Unit 2-2
- 2-3. Replacement of A/C HEAD Unit 2-2
- 2-4. Replacement of Full Erase Head Unit 2-3
- 2-5. Replacement of Capstan Rotor Unit and Stator Unit 2-3
- 2-6. Replacement of Impedance Roller Unit 2-3
- 2-7. Replacement of Pinch Arm Unit 2-4
- 2-8. Replacement of Take-up and Supply Reel Base Units 2-4
- 2-9. Replacement of Take-up and Supply Brake Arm Unit 2-5
- 2-10.Replacement of Tension Band Unit 2-5
- 2-11.Replacement of Loading Motor Unit 2-6
- 2-12.Replacement of Cleaner Roller Unit 2-6
- 2-13.Replacement of SS Brake Base Unit and Timing Belt 2-7
- 2-14.Replacement of Supply & Take-up Inclined Base Unit 2-7

SECTION 3 MECHANICAL ADJUSTMENT PROCEDURE 3-1
- 3-1. Coarse Adjustment of Tape Guide Post Heigth 3-1
- 3-2. Fine Adjustment of P2 and P3 Posts 3-2
- 3-3. Coarse Adjustment of A/C Head Height (1) 3-2
- 3-4. Coarse Adjustment of A/C Head Height (2) 3-3
- 3-5. Fine Adjustment of A/C Head Height 3-3
- 3-6. Horizontal Position Adjustment of A/C Head 3-3
- 3-7. Adjustment of Tension Post Position 3-4
- 3-8. Adjustment of Back Tension 3-4
- 3-9. Adjustment of Capstan Housing & Stator 3-5
- 3-10.Adjustment of Thrust Gap 3-6
- 3-11.Adjustment of FG GAP 3-6
- 3-12.Pressing Force Confirmation of the Pressure Roller 3-6

SECTION 4 ASSEMBLY & PHASE ADJUSTMENT PROCEDURE 4-1
- 4-1. Assembly Procedures of Mechanism 4-1
- 4-2. Assembly of parts on the Top Chassis 4-2
- 4-3. Assembly of parts on the Bottom Chassis 4-2
- 4-4. Assembly of Main Cam Gear and Sub Cam Gear 4-3
- 4-5. Assembly of Mode Switch 4-3
- 4-6. Assembly of Take-up and Supply Loading Gears 4-4
- 4-7. Assembly of Main Lever 4-4
- 4-8. Reinstall of the Cassette Compartment 4-6

SECTION 1
GENERAL INFORMATION

The K mechanism maintains the same high performance as G2 mechanism but with a smaller quantity of mounted parts, 40% less than G2 mechanism.

1-1. FEATURE of K MECHANISM

1-1-1. Parts Reduction

<K Mechanism>

a. Reduction in the number of drive parts through the use of a single motor to perform front loading and unit loading.
b. Direct drive of brakes and loading gears with the multi-function main lever.
c. Elimination of sub lever and solenoids.

<Front Loading Unit>

a. Elimination of a slide switch, to reduce wiring.
b. Elimination or combining the joint parts.
c. Smaller and thinner the top plate and rack parts.

1-1-2. No Adjustment of the following is required.

a. Take-up inclined position.
b. P5 Post height.

1-1-3. Reduced Gear Phase Position Alignments

The K Mechanism has only 6 gear phase alignment positions and G2 mechanism has 12 gear phase alignment positions.

1-2. OPERATION of K-MECHANISM

The K mechanism has two motors, the loading motor and capstan motor. The loading motor operates the front loading/unloading and tape loading/unloading. The capstan motor operates each mode.
The bottom C.B.A. connects the mechanism to the system control circuit. On the bottom C.B.A. there are take-up and supply photo-sensors, Sensor LED, Mode Switch Connector, Safety Tab Switch, Supply and Take-up Reel Sensors and Loading Motor Connector. All sensor information sent to the system control circuit.

1-3. EMERGENCY CASSETTE REMOVAL

If the electrical circuit is defective and the action of unloading and front unloading do not work properly, it is possible to removing cassette manually.
There are 2 methods of removing the cassette.

A. Battery Operation

1. Remove the bottom plate.
2. Connect the battery (Manganese-Type (AA)(R6) 3pcs./+4.5V) to P1503 as shown in Fig.G1.
3. After moving the loading post to the unloaded position, disconnect the battery to stop the loading motor.
4. Turn the capstan rotor clockwise to take up the tape.
5. Reconnect the battery to eject the cassette.

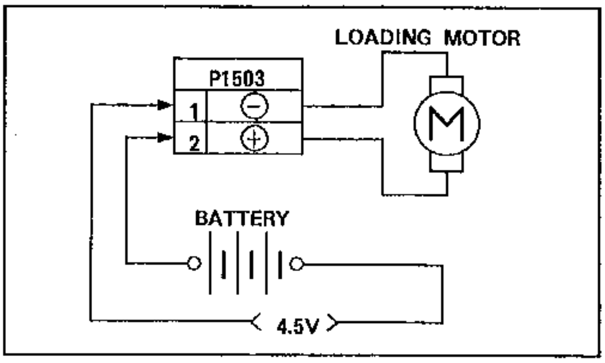


Fig.G1

B. Hand Operation

1. Remove the bottom plate.
2. Turn the worm gear to arrow mark direction (A) by finger as shown in Fig.G2 until loading post move to unloading position.
3. Turn the capstan rotor clockwise (B) to take up the tape.
4. Turn the worm gear again to eject the cassette.

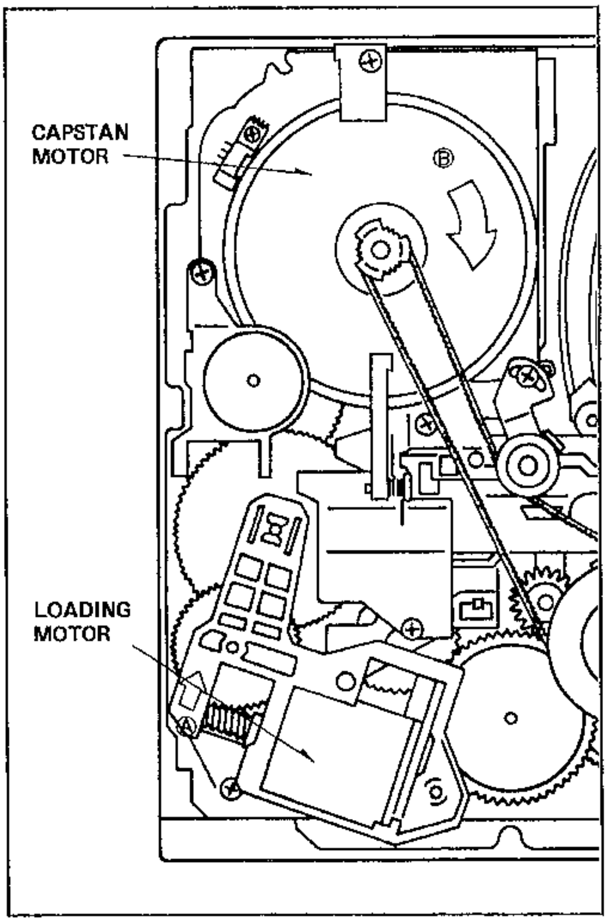

CAPSTAN MOTOR
B
LOADING MOTOR
A

Fig.G2

1-4. EJECT OPERATION

The main cam gear rotates in the direction of the arrow. The projection (B) of the carriage connection gear engages with the recession (A) of the main cam gear. The carriage connection gear rotates in the direction of the arrow to perform the Eject operation.

If the Eject operation is performed without the cassette installed while repairing or making the mechanical phase alignment, the main cam gear will not rotate. For performing the Eject operation with the cassette carriage not installed, it is necessary to rotate the carriage connection gear by hand in the direction of the arrow.

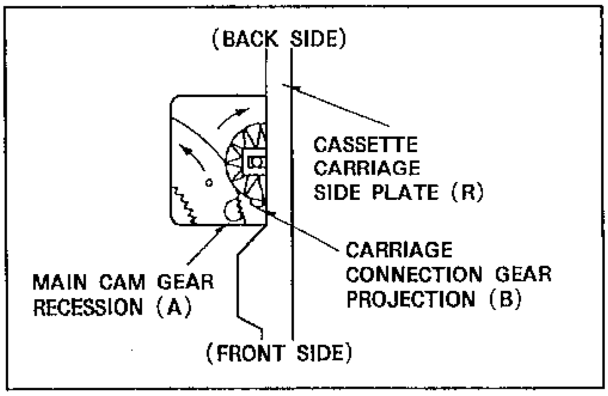

(BACK SIDE)
CASSETTE CARRIAGE SIDE PLATE (R)
CARRIAGE CONNECTION GEAR PROJECTION (B)
MAIN CAM GEAR RECESSION (A)
(FRONT SIDE)

Fig.G3

1-5. REMOVAL of MECHANISM

1-5-1. Removal of Top Plate

1. Unscrew 2 screws (A) and unlock 4 locking tabs to arrow direction as shown in Fig.G4.
2. Lift up the Top Plate.

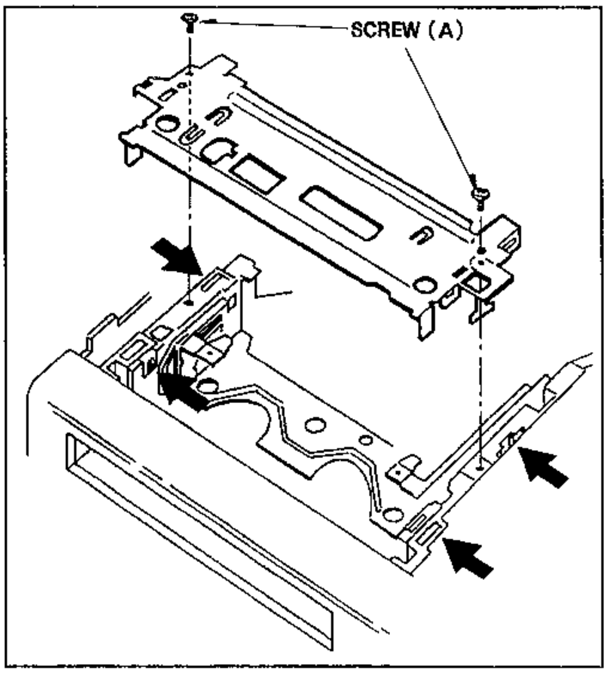


Fig.G4

1-5-2. Removal of Mechanism Chassis

1. Unscrew 2 screws (A) push the Holder Plate slightly to rear of the mechanism.
2. Unscrew a screw (B).
3. Disconnect all cable and connectors on the mechanism chassis.
    1)FE Head connector
    2)A/C Head connector
    3)Power Transistor connector
    4)Head Amp connector
    5)Capstan cable
4. Disconnect a Dew Sensor connector on the MAIN C.B.A.
5. Lift the mechanism chassis slightly and disconnect a connector of Cylinder Motor and a cable of Mechanism Connection C.B.A.
   Then mechanism chassis out of the unit.

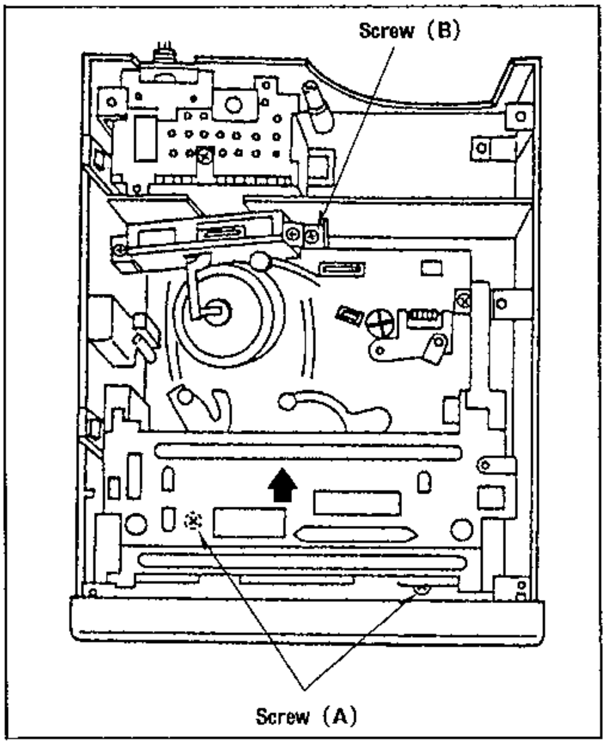


Fig.G5

1-5-3. Removal of Mechanism Connection C.B.A.

1. Unscrew 4 screws (C).
2. Lift up the Mechanism Connection C.B.A.

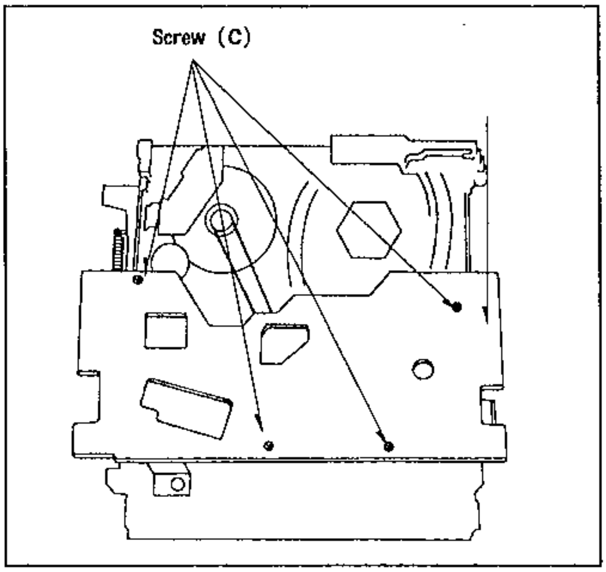
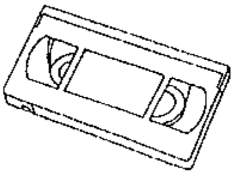
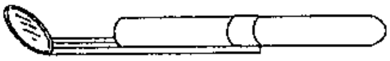
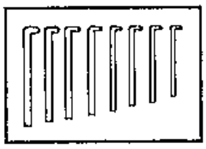
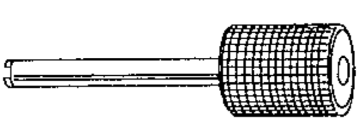
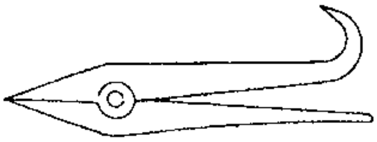
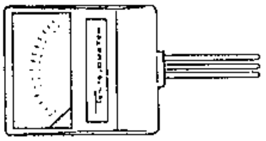
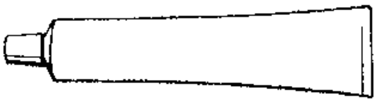
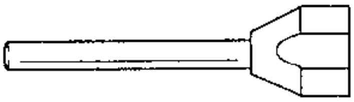
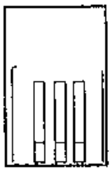
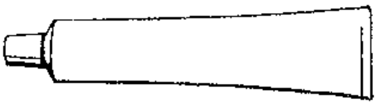
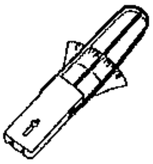
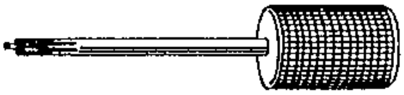


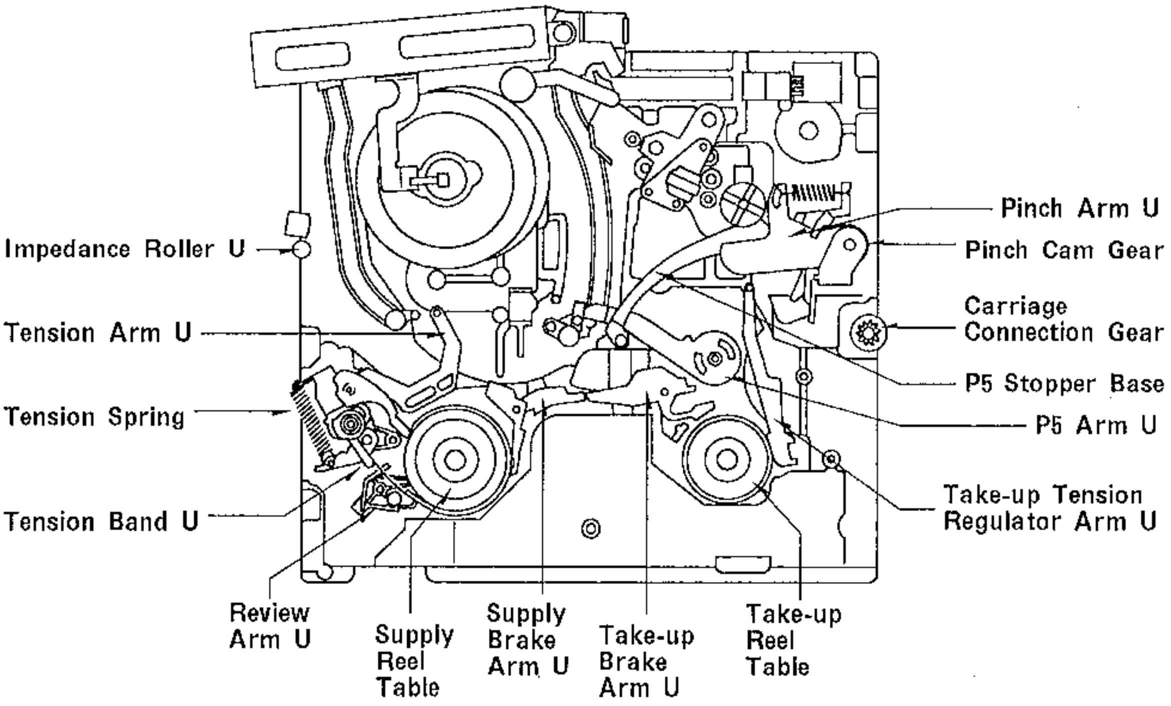
Fig.G6

1-6. SERVICE FIXTURES AND TOOLS

The regular maintenance is important to maintain the initial specification of the unit and prevent tape damage. The specified servicing fixture must be used to conduct adjustment.
The following fixtures, tools and measuring equipments are required to conduct complete Mechanical Adjustments.

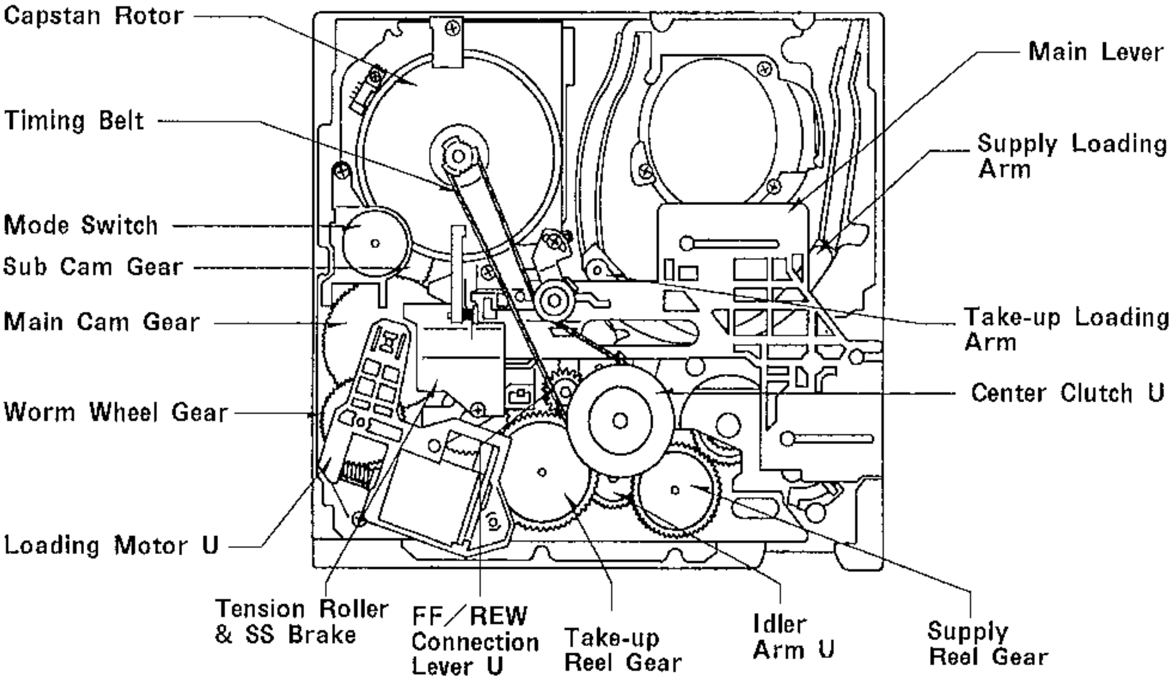
VFM8080HQFP: VHS Alignment Tape 	VFK0948: Check Light 	VFK0326: Hex Wrench Set (0.7, 0.9, 1.2, 1.5, 1.6, 2.0, 2.4, 3.0mm) 
VFK0329: Post Adj. Screwdriver 	VFK0335: Retaining Ring Remover 	VFK0132: Back Tension Meter (Tentelometer,Made in U.S.A.) 
MOR265: Morlytone Grease (Black) (for metal parts) 	VFK0851: Center Fixing Tool 	VFK27: Head Cleaning Stick 
VFK0680: S.C.R. Grease (White) (for plastic parts) 	VFK66 ; Fan Type Tension Gauge 	VFK0330: Fine Adj. Screwdriver 

1-7. Mechanical Parts Location



Impedance Roller U
Tension Arm U
Tension Spring
Tension Band U
Review Arm U
Supply Reel Table
Supply Brake Arm U
Take-up Brake Arm U
Take-up Reel Table
Pinch Arm U
Pinch Cam Gear
Carriage Connection Gear
P5 Stopper Base
P5 Arm U
Take-up Tension Regulator Arm U

《TOP VIEW》



Capstan Rotor
Timing Belt
Mode Switch
Sub Cam Gear
Main Cam Gear
Worm Wheel Gear
Loading Motor U
Tension Roller & SS Brake
FF/REW Connection Lever U
Take-up Reel Gear
Idler Arm U
Supply Reel Gear
Main Lever
Supply Loading Arm
Take-up Loading Arm
Center Clutch U

《BOTTOM VIEW》

SECTION 2
MAINTENANCE PROCEDURE

The MAINTENANCE CHART please refer to the Maintenance Section which are shown in service manual for each model.

2-1. Replacement of the Upper Cylinder Unit

1. Unscrew 2 screws (A).
2. Unsolder arrows marked portions on the top of the Upper Cylinder as shown in Fig.M1.
3. Remove the Upper Cylinder.
4. The Upper Cylinder can be reinstalled by reversing the removal procedure.
   However, when insert the Upper Cylinder be extremely carefully so that marked portion of P.C.board of the Upper Cylinder correctly matches to mark of the Lower Cylinder as shown in Fig.M2.

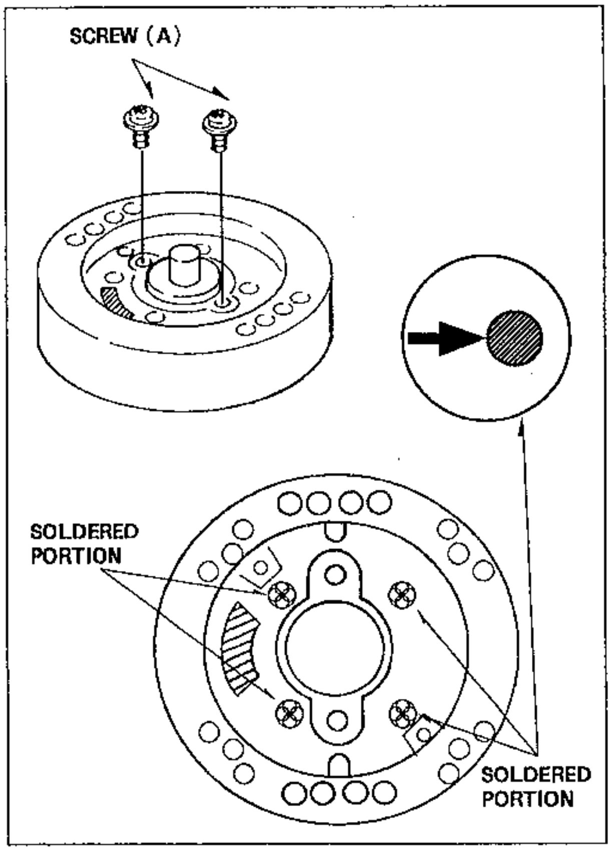


Fig.M1

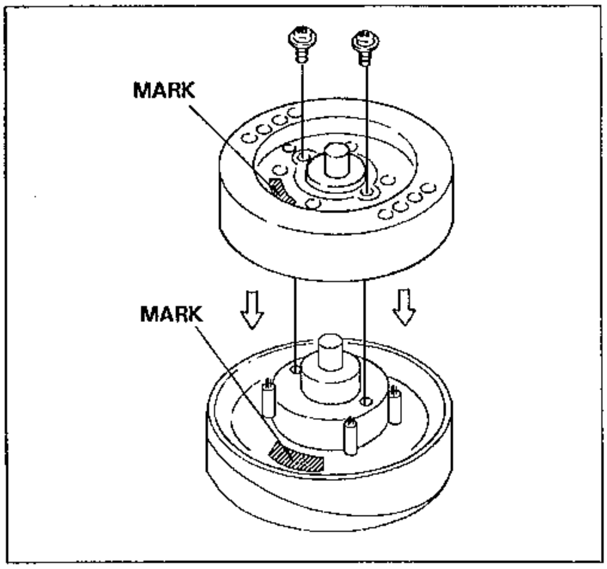


Fig.M2

<NOTE>
After reinstall the Upper Cylinder Unit should be perform Mechanical and Electrical adjustments.
3-2. FINE ADJUSTMENT of P2 and P3 POSTS
3-6. HORIZONTAL POSITION ADJUSTMENT

2-2. Replacement of Cylinder Unit

1. Remove the Earth Plate.
2. Unscrew 2 screws both side of Head Amp Unit and lift up the Head AMP.
3. Unscrew 3 screws (B) from back side of the mechanical chassis then remove the Cylinder Unit.
4. The Cylinder Unit can be reinstalled by reversing the removal procedure.

<Note>

After reinstall the Cylinder Unit should be perform Mechanical and Electrical adjustments.

3-2. FINE ADJUSTMENT of P2 and P3 POSTS
3-6. HORIZONTAL POSITION ADJUSTMENT

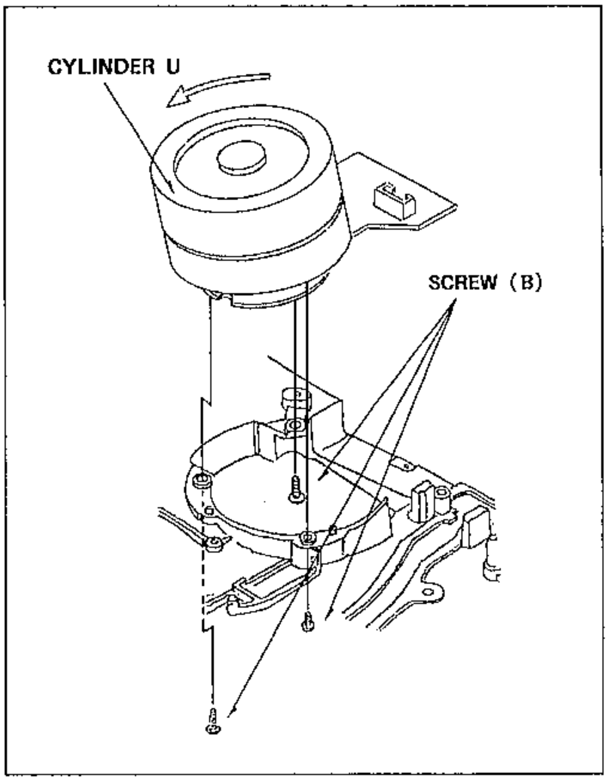


Fig.M3

2-3. Replacement of A/C HEAD Unit

1. Unscrew 3 screws (C)(D)(E) with the 3 springs then remove the A/C Head unit from the A/C Head Base.
2. The A/C Head Unit can be reinstalled by reversing the removal procedure.

<Note>

A space should be equality between the A/C Head U and the A/C Head Base when reinstall the A/C Head unit.

After reinstall the A/C Head Unit should be perform Mechanical and Electrical adjustments.

3-2. FINE ADJUSTMENT of P2 and P3 POSTS
3-3. COARSE ADJUSTMENT of A/C HEAD HEIGHT(1)
3-4. COARSE ADJUSTMENT of A/C HEAD HEIGHT(2)
3-5. FINE ADJUSTMENT of A/C HEAD HEIGHT
3-6. HORIZONTAL POSITION ADJUSTMENT

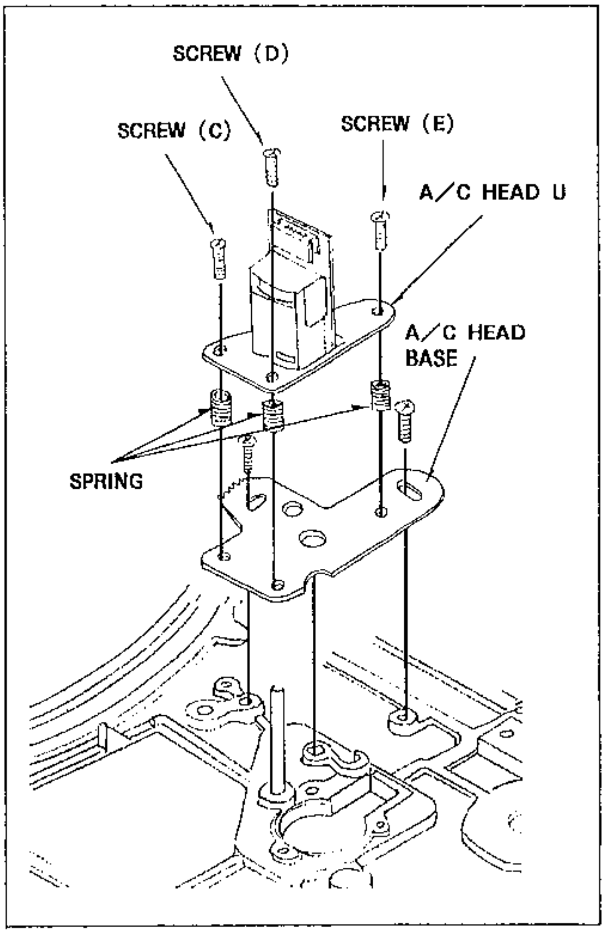


Fig.M4

2-4. Replacement of Full Erase Head Unit

1. Disconnect a connector (A).
2. Unscrew screw (F) then remove the FE Head.
3. FE Head Unit put into hole on the mechanical chassis and can be reinstalled by reversing the removal procedure.

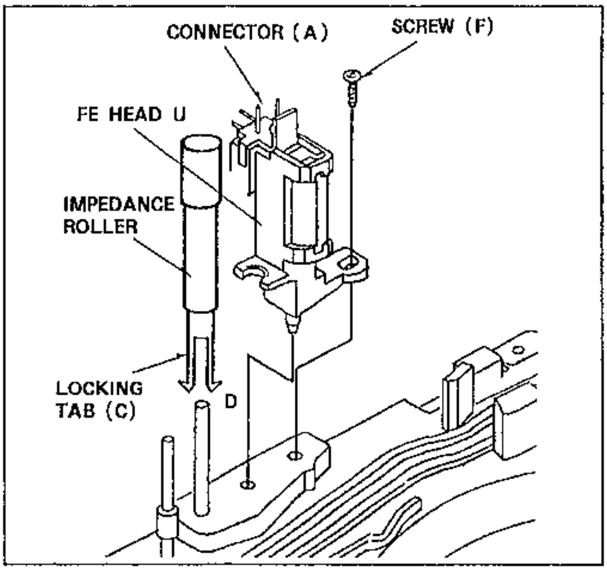


Fig.M5

2-5. Replacement of Capstan Rotor Unit and Stator Unit

1. Remove the Rotor Stopper.
2. Carefully lift up the Capstan Rotor from the Capstan Housing, taking care so as not loose the 2 Oil Seals.
3. Unscrew 3 screws (G) and remove the Capstan Stator Unit as shown in Fig.M6.
4. The Capstan Rotor and Stator can be reinstalled by reversing the removal procedure.

<Note>

After reinstall the Capstan Rotor and Stator Units should be perform Mechanical adjustment.

3-9. ADJUSTMENT of CAPSTAN HOUSING & STATOR
3-10. ADJUSTMENT of THRUST GAP
3-11. ADJUSTMENT of FG GAP

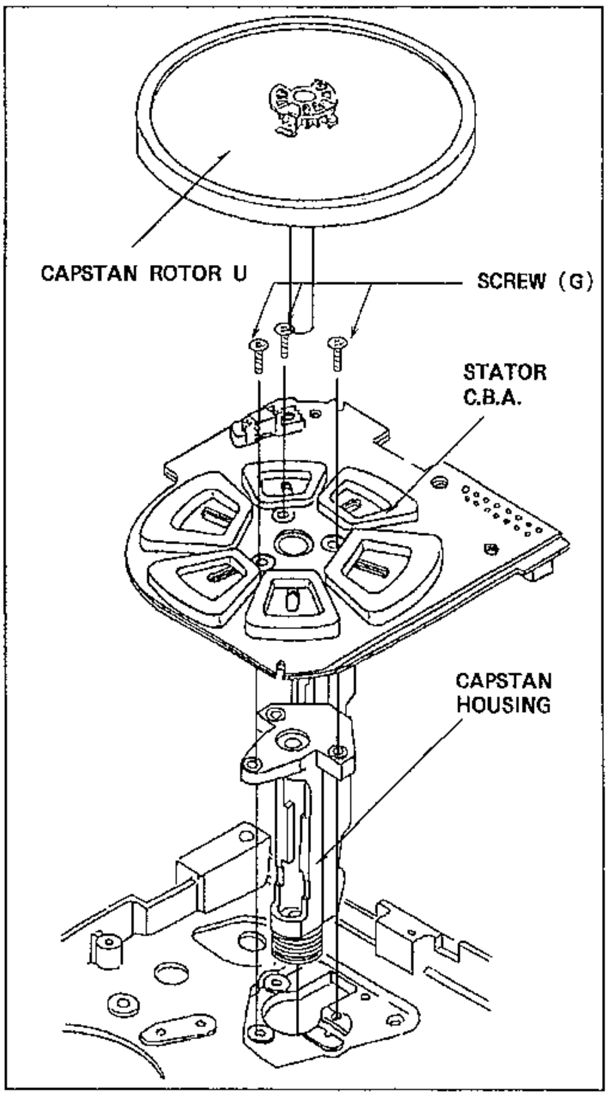


Fig.M6

2-6. Replacement of Impedance Roller Unit

1. Remove the Full Erase Head Unit with removal procedure(2-4).
2. Unlock then locking tab to direction of arrow mark as shown in Fig.M5 and remove the Impedance Roller Unit.
3. The Impedance Roller Unit can be reinstalled by reversing the removal procedure.

2-7. Replacement of Pinch Arm Unit

1. Unlock the locking tab on the Opener Piece and remove it from the shaft.
2. Remove the Pinch Arm Unit from the shaft.
3. The Pinch Arm Unit can be reinstalled by reversing the removal procedure.

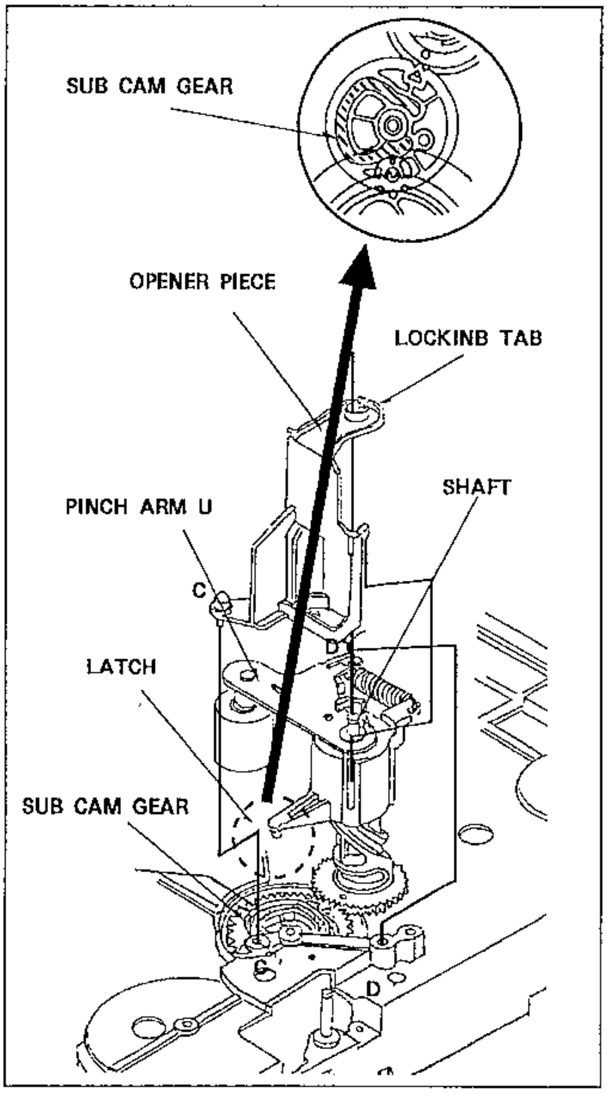

SUB CAM GEAR
OPENER PIECE
LOCKINB TAB
SHAFT
PINCH ARM U
C
D
LATCH
SUB CAM GEAR
C
D

Fig.M7

2-8. Replacement of Take-up and Supply Reel Base Units

A. Supply Reel Base Unit

1. Remove the Tension Band Unit on the Supply Reel Base Unit.
2. Push the Supply main Brake Arm to direction of arrow mark and unlock the locking tab on the Supply Reel Base then pull up the Supply Reel Base Unit as shown in Fig.M8.
3. The Supply Reel Base Unit can be reinstalled by reversing the removal procedure.

B. Take-up Reel Base Unit

1. Push the Take-up Main Brake Arm to direction of arrow mark and unlock the locking tab on the top of Take-up Reel Base then pull out the Supply Reel Base Unit as shown in Fig.M8.

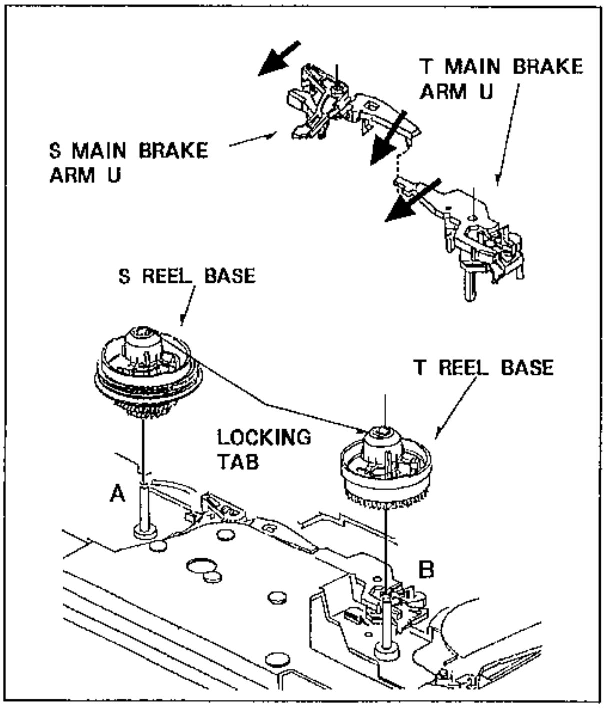

T MAIN BRAKE ARM U
S MAIN BRAKE ARM U
S REEL BASE
T REEL BASE
LOCKING TAB
A
B

Fig.M8

2-9. Replacement of Take-up and Supply Brake Arm Unit.

1. Unlock the locking tab (A) to direction of arrow mark and lift up the Supply Brake Arm Unit.
2. Unlock the locking tab (B) and lift up the Take-up Brake Arm Unit.
3. Both Brake Arm Units can be reinstalled by reversing the removal procedure.
   However the boss (C) of the Supply Brake Arm Unit insert to hole (E) of mechanical chassis while pushing the Main Lever to direction of arrow mark as shown in Fig.M9. (expanded view)

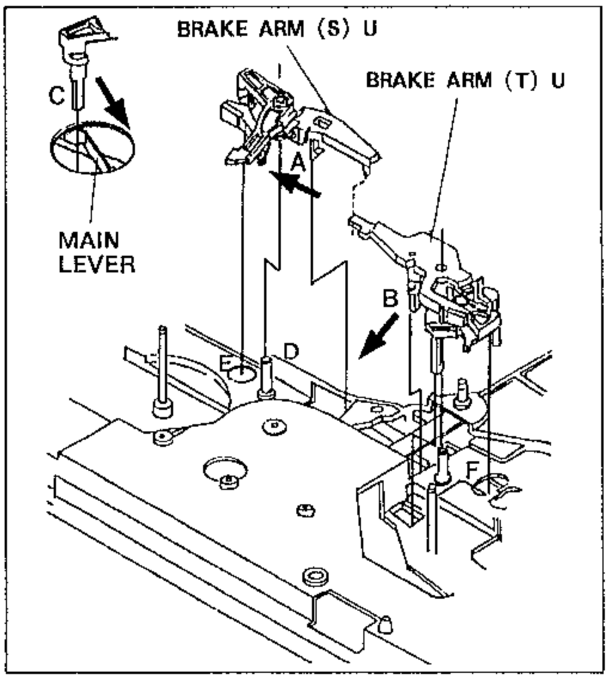

BRAKE ARM (S) U
BRAKE ARM (T) U
C
MAIN LEVER
A
B
D
E
F

Fig.M9

2-10. Replacement of Tension Band Unit

1. Remove the cut washer (H) and lift up the Tension Arm Unit with the Tension Band and spring from the Tension Spring Arm.
2. Unlock the locking tab (A) to direction of arrow mark and remove the Tension Band from the Arm Unit.
3. Unlock the locking tab (B) and remove the Tension Band from the Tension Arm Unit.
4. The Tension Band Unit can be reinstalled by reversing the removal procedure.

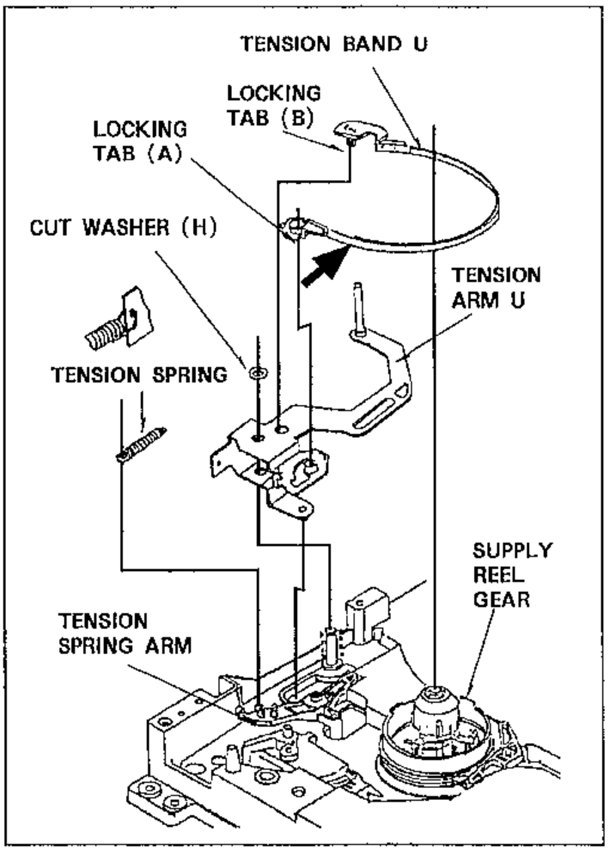

TENSION BAND U
LOCKING TAB (B)
LOCKING TAB (A)
CUT WASHER (H)
TENSION ARM U
TENSION SPRING
SUPPLY REEL GEAR
TENSION SPRING ARM

Fig.M10

2-11. Replacement of Loading Motor Unit

1. Unscrew screw (I).
2. Unlock the locking tab (A) from the top of the mechanical chassis.
3. Lift up the Loading Motor Bracket and push it to direction of arrow mark as shown in Fig.M11.
4. When reinstall the Loading Motor Unit, insert the locking hole (B') of Loading Motor Bracket Unit to shaft (B) on the mechanical chassis. Also a hole (C) of the loading Motor Unit must be matched to the shaft (C') as shown in Fig.M11.

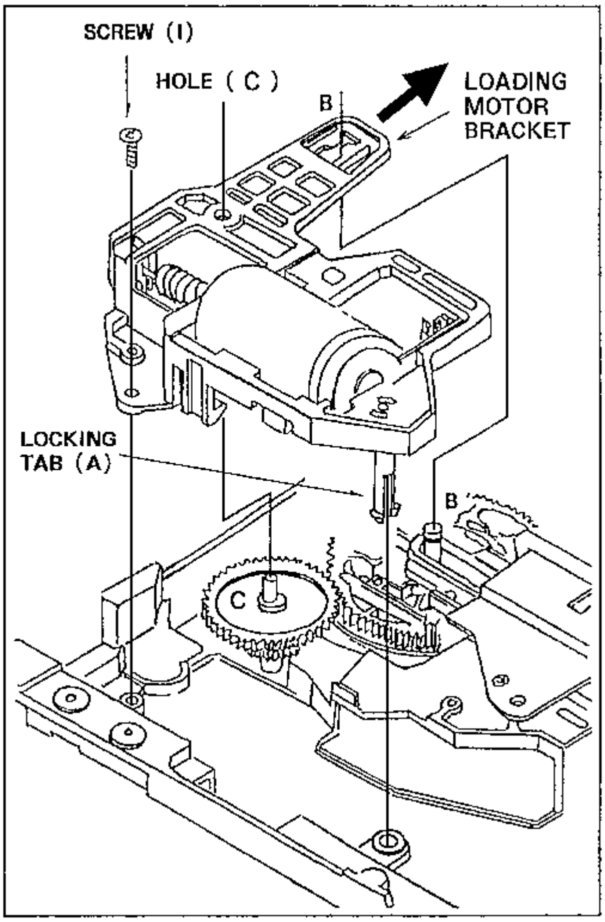

SCREW (I)
HOLE (C)
B
LOADING MOTOR BRACKET
LOCKING TAB (A)
B'
C

Fig.M11

2-12. Replacement of Cleaner Roller Unit

1. Unlock the locking tab (A) as shown in Fig.M12. and lift it up.
2. The Cleaner Roller Unit can be reinstalled by reversing the removal procedure.

3. Replacement of the Cleaner Rubber Unit. Hold the Cleaner Roller Unit and unlock the locking tab (B) then lift it up.

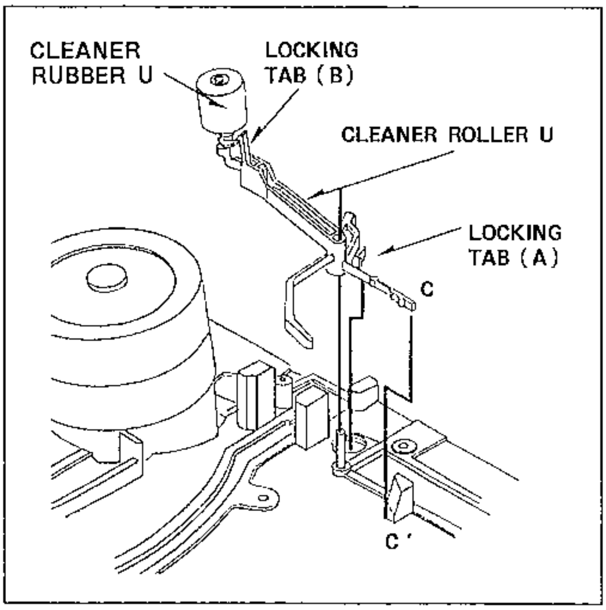

CLEANER RUBBER U
LOCKING TAB (B)
CLEANER ROLLER U
LOCKING TAB (A)
C
C'

Fig.M12

2-13. Replacement of SS Brake Base Unit and Timing Belt

1. Remove the Timing Belt.
2. Unscrew (J) and (K) then remove SS Brake Base Unit.
3. SS Brake Unit and Timing Belt can be reinstalled by reversing the removal procedure.

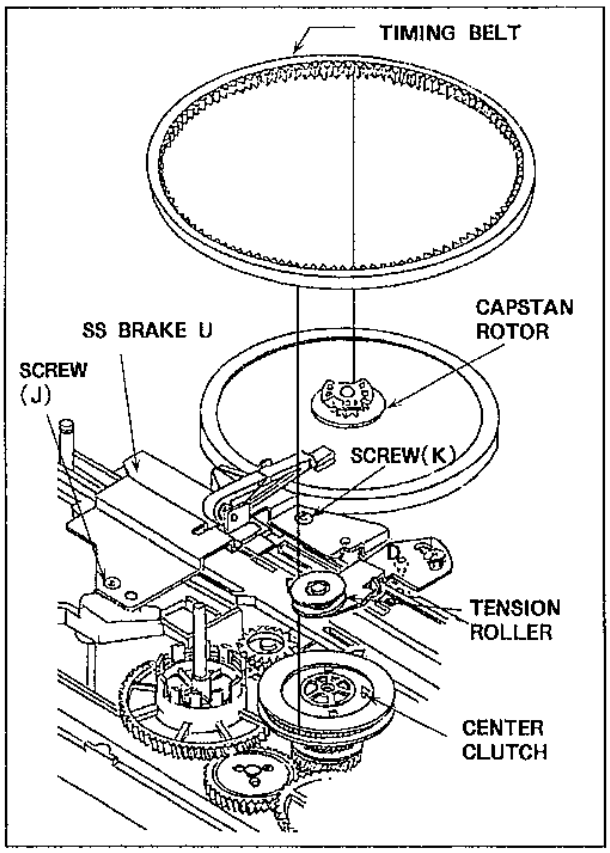

TIMING BELT
CAPSTAN ROTOR
SS BRAKE U
SCREW (J)
SCREW(K)
TENSION ROLLER
CENTER CLUTCH

Fig.M13

2-14. Replacement of Supply & Take-up Inclined Base Unit

1. Remove SS Brake Unit, Main Lever Unit and Supply and Take-up Loading Arm Unit refer to SECTION 2. and 3. in this service manual.
2. Remove the Inclined Holder base (A) from back side of mechanism chassis.
3. Remove the Supply and Take-up Inclined Base Units.
4. The both Inclined Base Units can be reinstalled by reversing the removal procedure.

<NOTE>

After reinstall the Inclined Base Unit should be perform Mechanical adjustment.

3-2. FINE ADJUSTMENT of P2 and P3 POSTS
3-5. FINE ADJUSTMENT of A/C HEAD HEIGHT
3-6. HORIZONTAL POSITION ADJUSTMENT of A/C HEAD

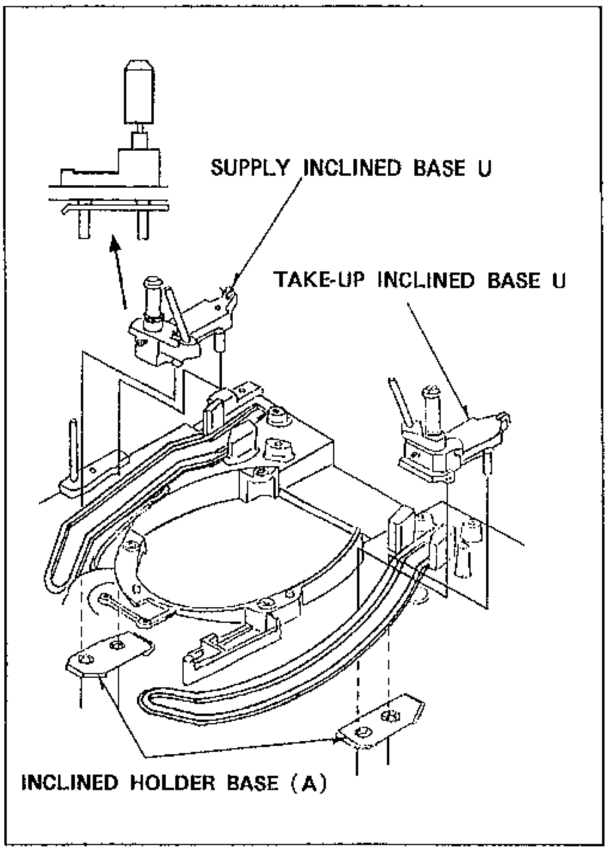

SUPPLY INCLINED BASE U
TAKE-UP INCLINED BASE U
INCLINED HOLDER BASE (A)

Fig.M14

SECTION 3
MECHANICAL ADJUSTMENT PROCEDURE

3-1. Coarse Adjustment of Tape Guide Post Height

1. Remove the Top Plate and Cassette Holder.
2. Turn the Loading Motor until the unloading completes.
3. Loosen the fixing screw of P2 and P3 Posts.
4. Rotate the P2 and P3 Posts clockwise to the end.
5. Rotate the P2 and P3 Posts twice counter-clockwise as shown in Fig.M15.
6. Install the Cassette Holder and Top Plate.
7. Playback the normal tape and make sure that the edge of not curing at the bottom or top end of the P1,P2,P3 and P4 Posts as shown in Fig.M17.

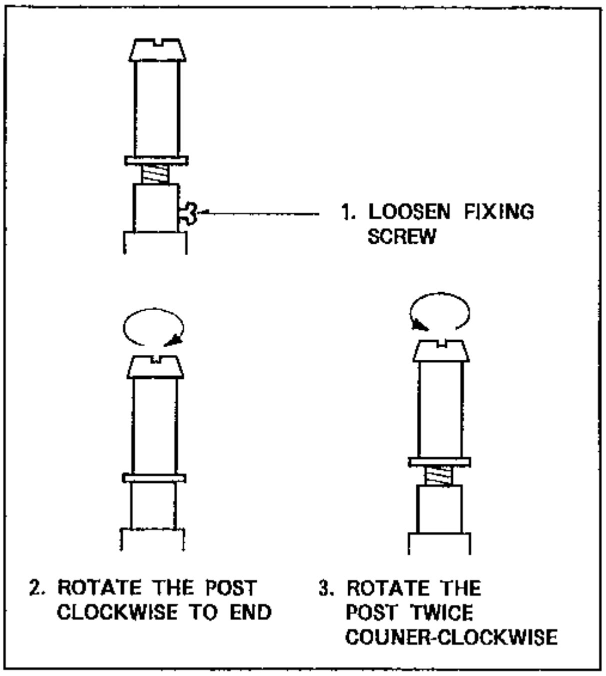

1. LOOSEN FIXING SCREW
2. ROTATE THE POST CLOCKWISE TO END
3. ROTATE THE POST TWICE COUNER-CLOCKWISE

Fig.M15

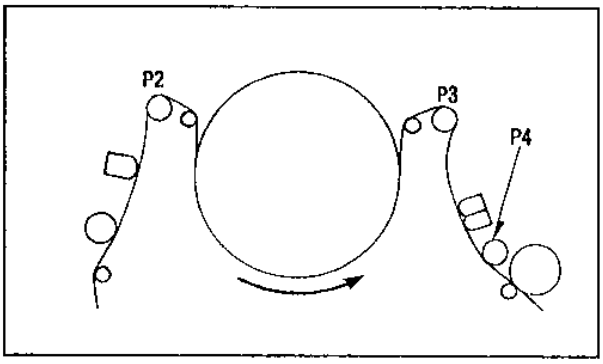


Fig.M16

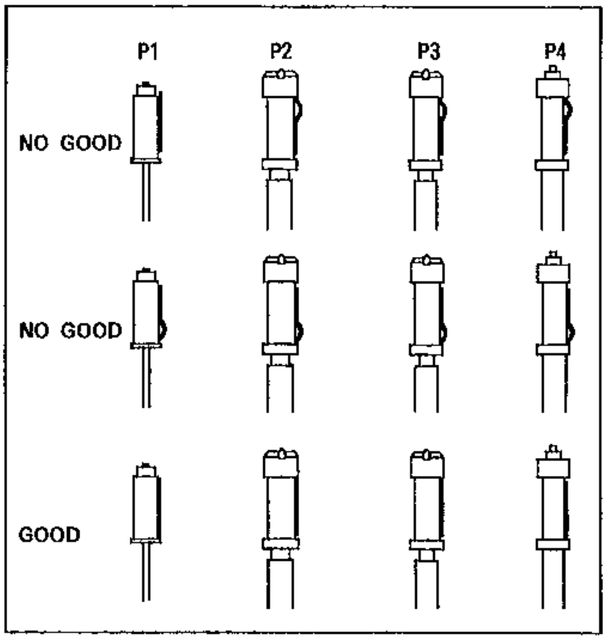

P1
P2
P3
P4
NO GOOD
NO GOOD
GOOD

Fig.M17

3-2. Fine Adjustment of P2 and P3 Posts

1. Connect the oscilloscope to the Test Point of the HEAD AMP (Video RF Envelope) and the head switching pulse as a triggering signal.

<NOTE>
TEST POINT please refer to the MECHANICAL ADJUSTMENT INFORMATION which are shown in service manual for each model.

2. Playback the 2nd portion of the alignment tape.
3. Press the tracking control button on the Front panel and adjust for maximum Video RF envelope.
4. If the RF envelope appears like example "A" or "B" in Fig.M18 then adjustment of the tape guide post (P3:Exit) is necessary.
5. Adjust the P3 post with the post adjustment screwdriver so that the RF envelope waveform at the exit portion becomes flat as shown in Fig.M18.
6. If the RF envelope appears like example "C" or "D" in Fig.M18 then adjustment of the tape guide post (P2:Entrance) is necessary.
7. Adjust the P2 post with the post adjustment screwdriver so that the RF envelope waveform at the entrance portion becomes flat as shown in Fig.M18.

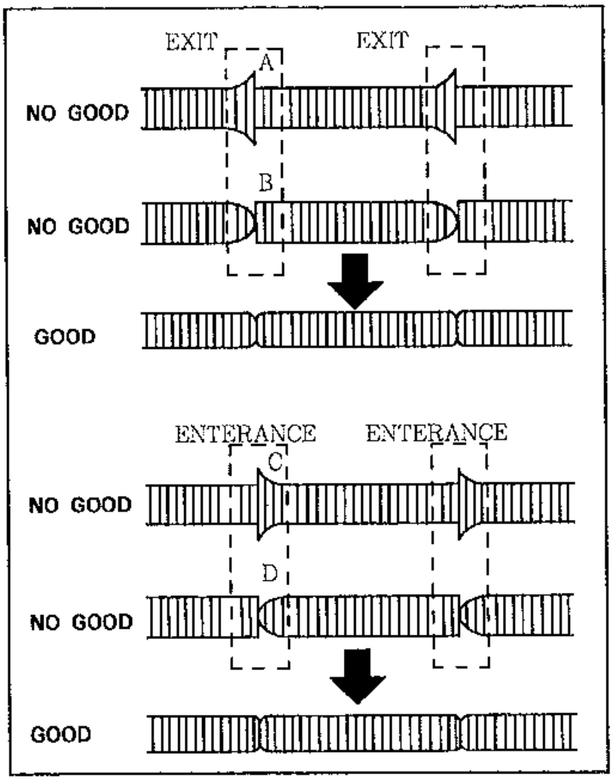

EXIT
A
EXIT
NO GOOD
B
NO GOOD
GOOD
ENTERANCE
C
ENTERANCE
NO GOOD
D
NO GOOD
GOOD

Fig.M18

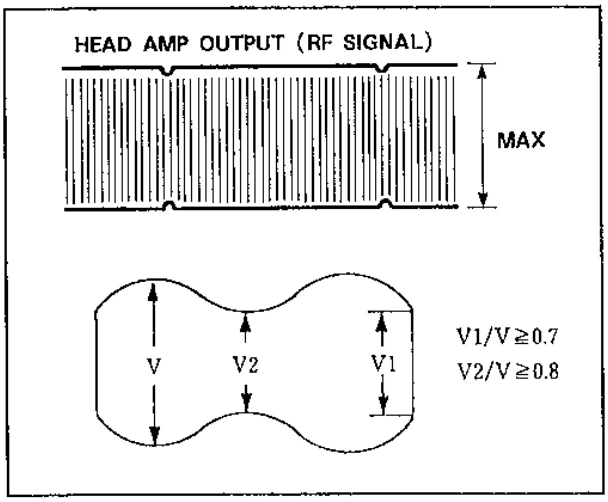

HEAD AMP OUTPUT (RF SIGNAL)
MAX
V
V2
V1
V1/V≧0.7
V2/V≧0.8

Fig.M19

3-3. Coarse Adjustment of A/C Head Height (1)

<NOTE>
This procedure should be performed only when the A/C Head is replaced.

1. Playback the normal tape.
2. Turn the 3 screws (A)(B)(C) mutually so that lower edge of tape running at lower edge of A/C Head and confirm a space as much as possible to flat between the A/C Head Unit and the A/C Head Base.

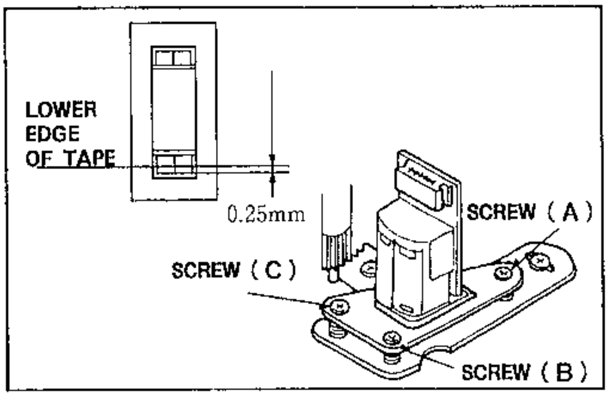

LOWER EDGE OF TAPE
0.25mm
SCREW (A)
SCREW (C)
SCREW (B)

Fig.M20

3-4. Coarse Adjustment of A/C Head Height (2)

1. Playback the normal tape.
2. Rotate the screw (A) as shown in Fig.M20 until the wrinkle appears on the lower edge of tape at P4 Post.
3. Rotate the screw (B) until the wrinkle just disappear on the lower edge of tape at P4 Post.

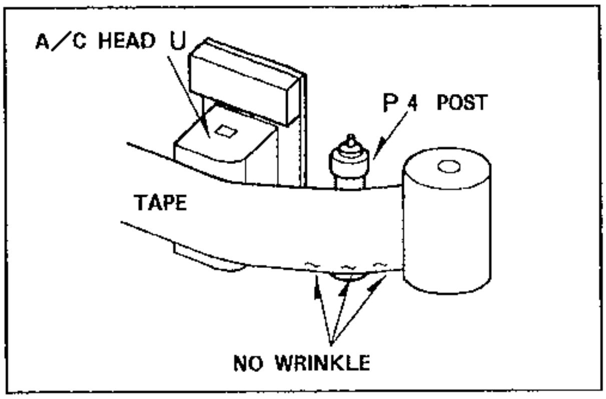


Fig.M21

3-5. Fine Adjustment of A/C Head Height

1. Connect the oscilloscope to the Audio output.
2. Playback the 2nd portion of the alignment tape.
3. Rotate the screw (C) so that audio signal becomes maximum.

<When moving the A/C Head up>

1. Rotate the screw (A) counter-clockwise until the wrinkle appears on the lower edge of tape at P4 Post.
2. Rotate the screw (B) counter-clockwise until just disappears on the lower edge of tape at P4 Post.
3. Rotate the screw (C) counter-clockwise until the audio signal is maximized.

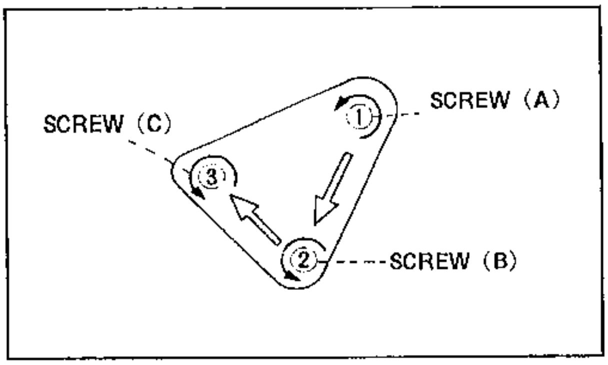


Fig.M22

<When moving the A/C Head down>

1. Rotate the screw (B) clockwise until the wrinkle appears on the lower edge of tape at P4 Post.
2. Rotate the screw (A) clockwise until the wrinkle just disappear on the lower edge of tape at P4 Post.
3. Rotate the screw (C) clockwise until the audio signal is maximized.

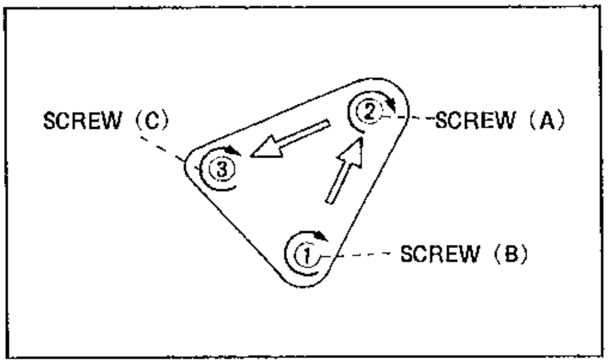


Fig.M23

3-6. Horizontal Position Adjustment of A/C Head.

<NOTE>
TEST POINT and JUMPER WIRE position, please refer to the MECHANICAL ADJUSTMENT INFORMATION which are shown in service manual for each model.

1. Set the tracking control into the center fix position by connect a jumper wire on the MAIN C.B.A.
2. Connect the oscilloscope to the Audio output, Video RF envelope on the Head Amp test point and head switching pulse on the Head Amp test point as for triggering.
3. Playback the 4th portion of the alignment tape.
4. Loosen the 2 screws (D)(E).
5. Adjust the A/C Head Base (F) so that the phase of audio drop-out and RF video drop-out becomes the same as possible. Fig.M24.
6. Playback the 2nd portion of the alignment tape.
7. Adjust the A/C Head Base (F) until the video RF signal is maximized.
8. Carefully tighten screw (D) with hold the A/C Head Base position with the Fine Adjustment Gear Driver then tighten screw (E).

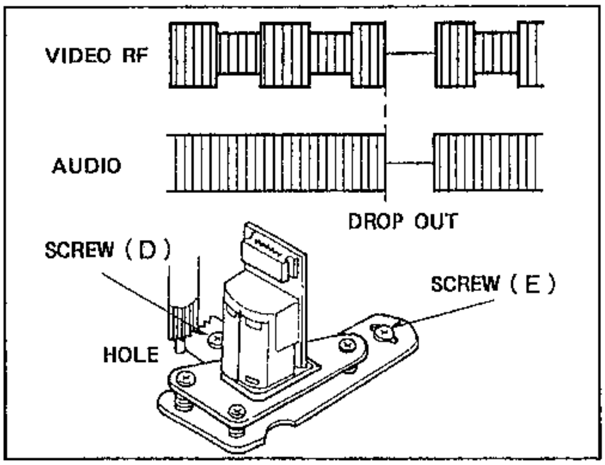

VIDEO RF
AUDIO
DROP OUT
SCREW (D)
SCREW (E)
HOLE

Fig.M24

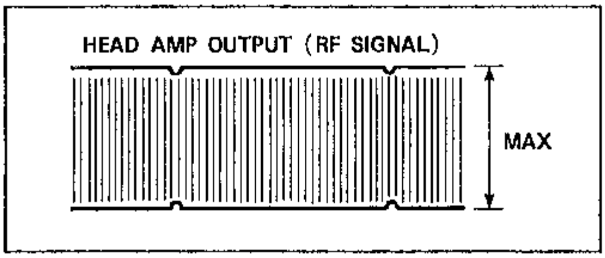

HEAD AMP OUTPUT (RF SIGNAL)
MAX

Fig.M25

3-7. Adjustment of Tension Post Position

1. Remove the Top Plate and Cassette Holder.
2. Turn the Loading Motor until the loading completes.
3. Adjust the hole of the Tension Band Unit by Hex wrench so that the left edge of the Impedance Roller and Tension Arm Unit as shown in Fig.M26.

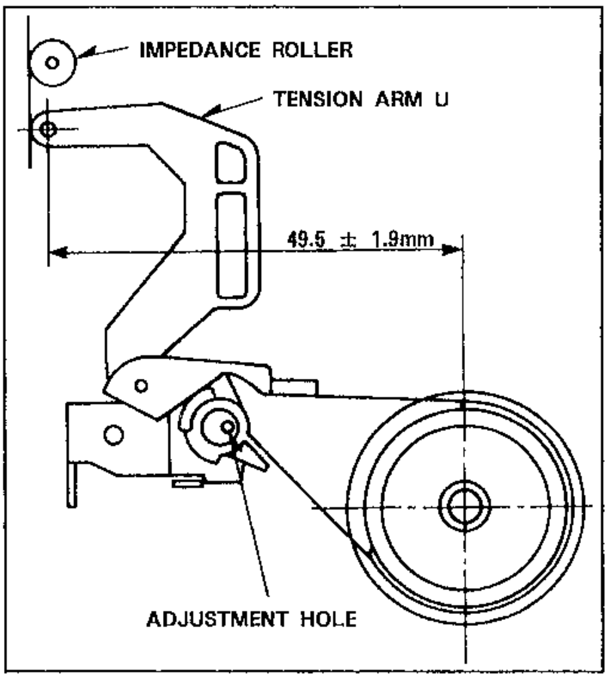

IMPEDANCE ROLLER
TENSION ARM U
49.5 ± 1.9mm
ADJUSTMENT HOLE

Fig.M26

3-8. Adjustment of Back Tension

1. Playback the cassette tape from the begging of tape and wait until tape movement has stabilized.
2. Insert the back tension meter into the path of the tape and confirm the back tension to be within specification as shown in Fig.M27.
3. If back tension is not in the specification, change the spring notch as shown in Fig.M28.

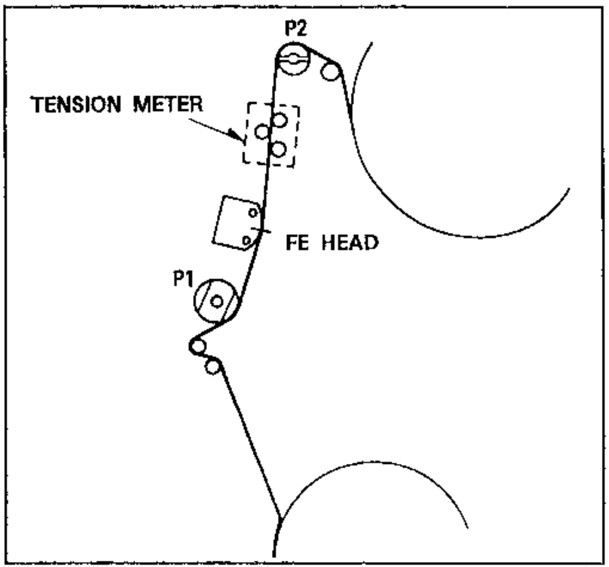

P2
TENSION METER
FE HEAD
P1

Fig.M27

<NOTE>
Specification of Back Tension, please refer to the MECHANICAL ADJUSTMENT INFORMATION which are shown in service manual for each model.

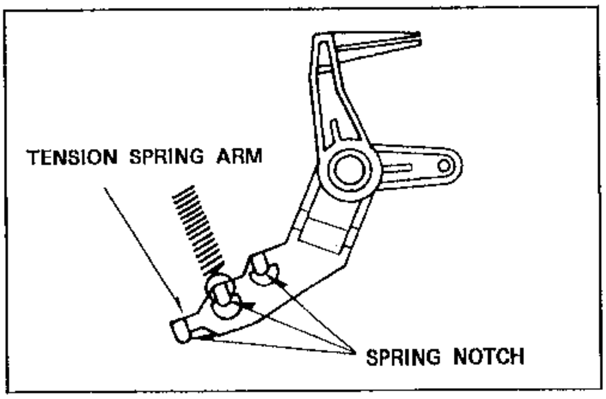

TENSION SPRING ARM
SPRING NOTCH

Fig.M28

3-9. Adjustment of Capstan Housing & Stator.

1. Install the Capstan Housing into the mechanical chassis and place the Capstan Stator into position.
2. Loosely tighten 3 screws (G).
3. Insert the Center Fixing Tool (VFK0851) as shown in Fig.M29.
4. Tighten 3 screws (G).
5. Remove the Center Fixing Tool.

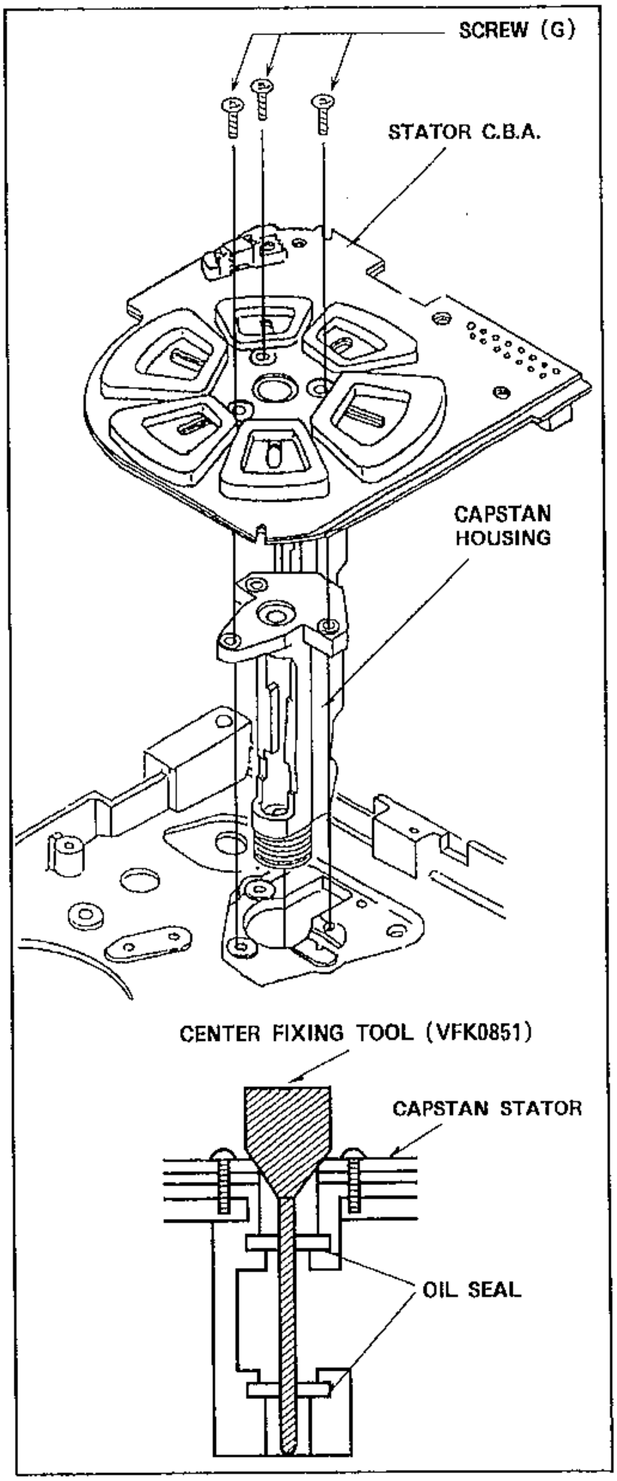

SCREW (G)
STATOR C.B.A.
CAPSTAN HOUSING
CENTER FIXING TOOL (VFK0851)
CAPSTAN STATOR
OIL SEAL

Fig.M29

3-10. Adjustment of Thrust Gap

1. Turn the Thrust Adjustment Screw clockwise to until the Capstan Rotor just separate from the Capstan Stator while rotating the Capstan Rotor by hand.
2. Turn the Thrust Adjustment Screw clockwise to 180 degrees from point at step 1.
3. Set the 2 Oil Seal to edge of the Capstan Housing as show in Fig.M30.

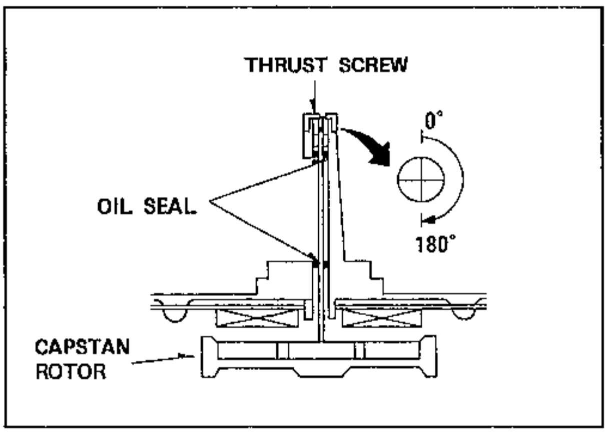


Fig.M30

3-11. Adjustment of FG GAP

1. Loosen screw (H) and set the Fine Adjustment Screw Driver in the hole on the Capstan Stator Unit.
2. Adjust the gap between FG Head and the Capstan Rotor.
3. After adjustment, tighten a screw (H).

<NOTE>
Specification of FG GAP, please refer to the MECHANICAL ADJUSTMENT INFORMATION which are shown in service manual for each model.

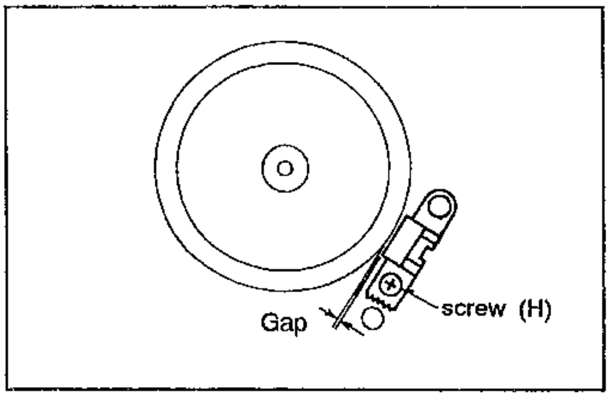


Fig.M31

3-12. Pressing Force Confirmation of the Pressure Roller

1. Playback the end portion of the 120 minutes tape.
2. Set the Fan type tension gauge to point (A) and push to direction indicated by the arrow (B) as shown in Fig.M32.
3. Confirm that reading of tension gauge is in specification at momentary stop the tape running.

<Note>
Specification of PRESSING FORCE, please refer to the MECHANICAL ADJUSTMENT INFORMATION which are shown in service manual for each model.

If the pressing force is not in specification, change the pressure spring.

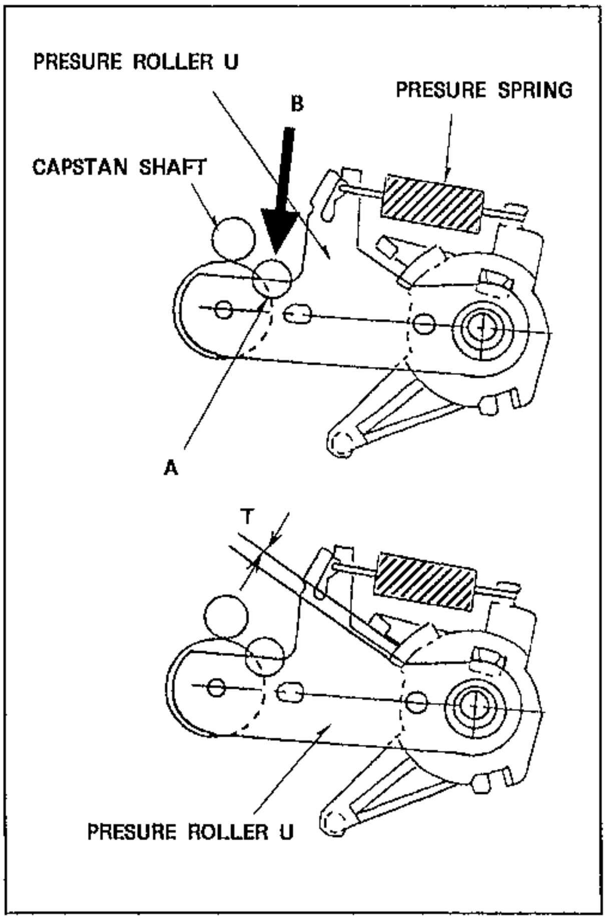


Fig.M32

SECTION 4
ASSEMBLY & PHASE ADJUSTMENT PROCEDURE

4-1. Assembly Procedures of Mechanism

The gear phase alignment is performed in the cassette down position and is crucial for the K-Mechanism to operate correctly.

1. Top view of gear phase alignment marks.
   There are alignment marks on the pinch cam gear and sub cam gear. there is one alignment mark on the carriage gear.

2. Bottom view of gear phase alignment marks.
   There are alignment marks on take-up loading gear and supply loading gear. There is an additional mark on the take-up loading gear that aligns with the mark on the main lever. There are alignment marks on the main cam gear and the sub cam gear. The mode switch gear mark aligns with a notch in the mode switch frame.

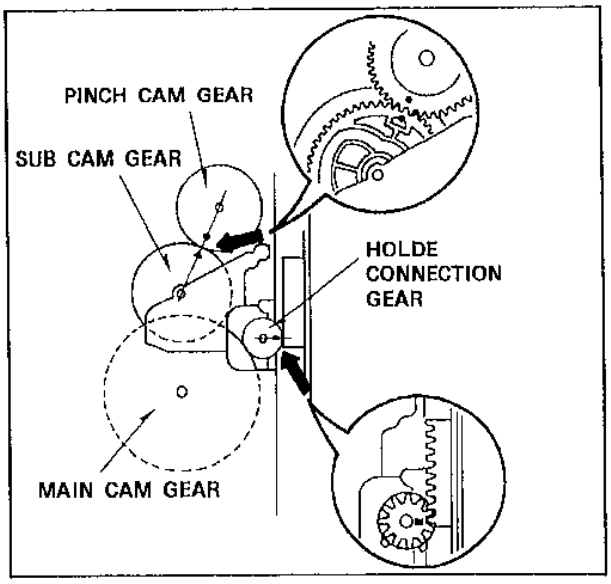
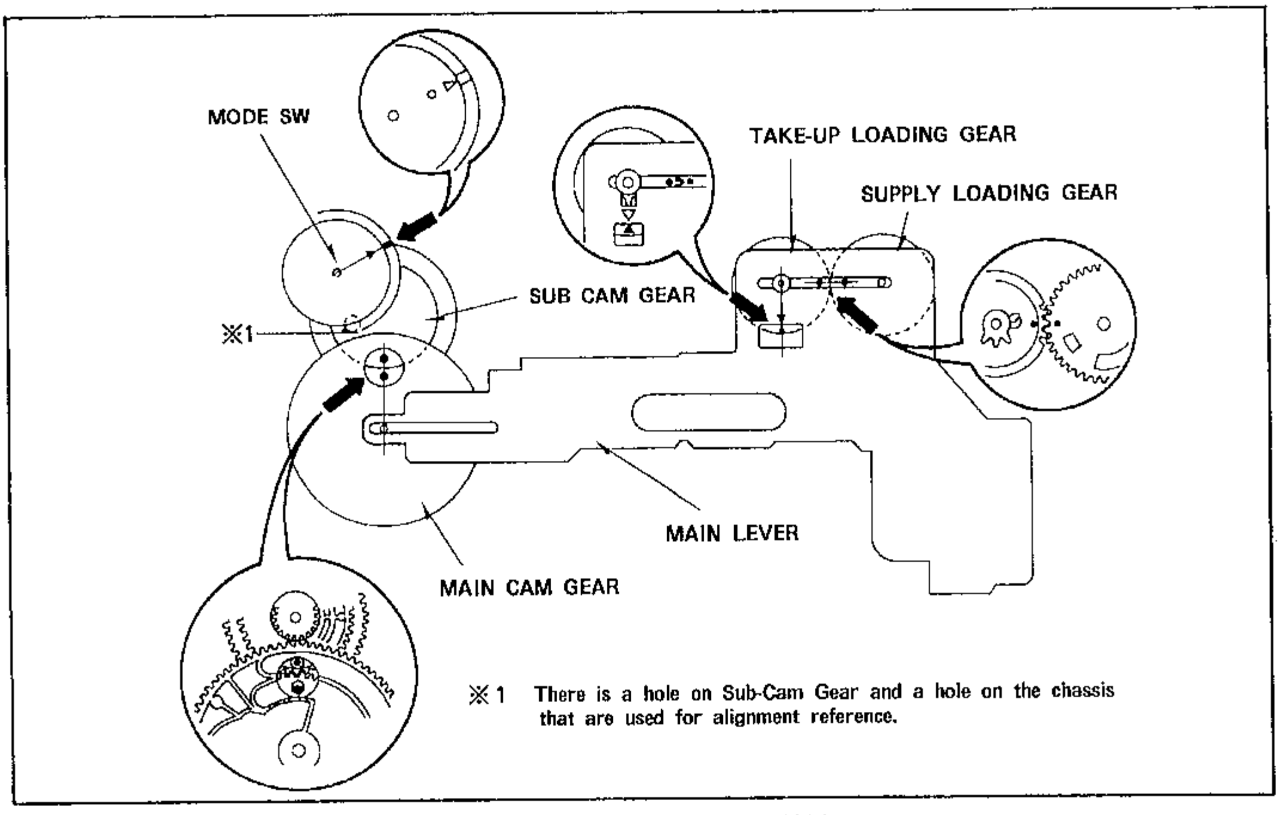

PINCH CAM GEAR
SUB CAM GEAR
HOLDE CONNECTION GEAR
MAIN CAM GEAR

Fig.M33


MODE SW
TAKE-UP LOADING GEAR
SUPPLY LOADING GEAR
SUB CAM GEAR
※1
MAIN LEVER
MAIN CAM GEAR

※1 There is a hole on Sub-Cam Gear and a hole on the chassis that are used for alignment reference.

Fig.M34

4-2. Assembly of parts on the Top Chassis

1. Install the Pinch Cam Gear onto shaft (A) and the P5 Arm Unit onto shaft (B).
2. Install the P5 Stopper Base with the cut washer (D) and screw (C).
3. Install the P5 Stopper on the P5 Stopper Base with latch (E).

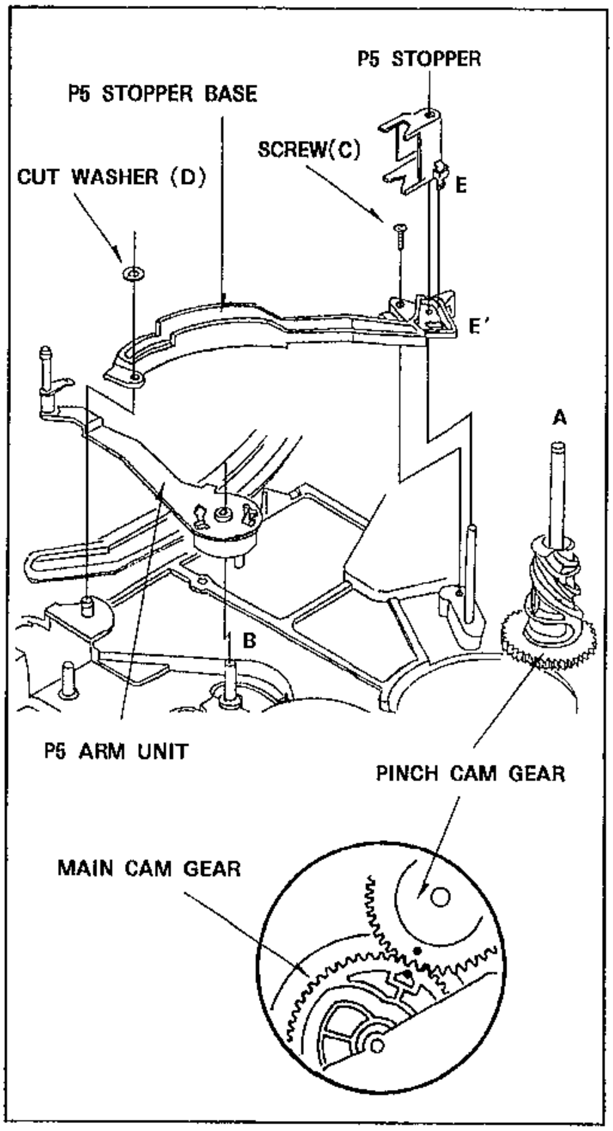

P5 STOPPER
P5 STOPPER BASE
SCREW(C)
CUT WASHER (D)
E
E'
A
B
P5 ARM UNIT
PINCH CAM GEAR
MAIN CAM GEAR

Fig.M35

4-3. Assembly of parts on the Bottom Chassis

1. Install the Idler Arm Unit onto shaft (F).
2. Install the Take-up and Supply Reel Gears onto shaft (G) and (H).
3. Install the Idler Regulator Level onto shaft (I) then install the Direct Lever.
4. Install the Center Clutch onto shaft (F) with the cut washer.

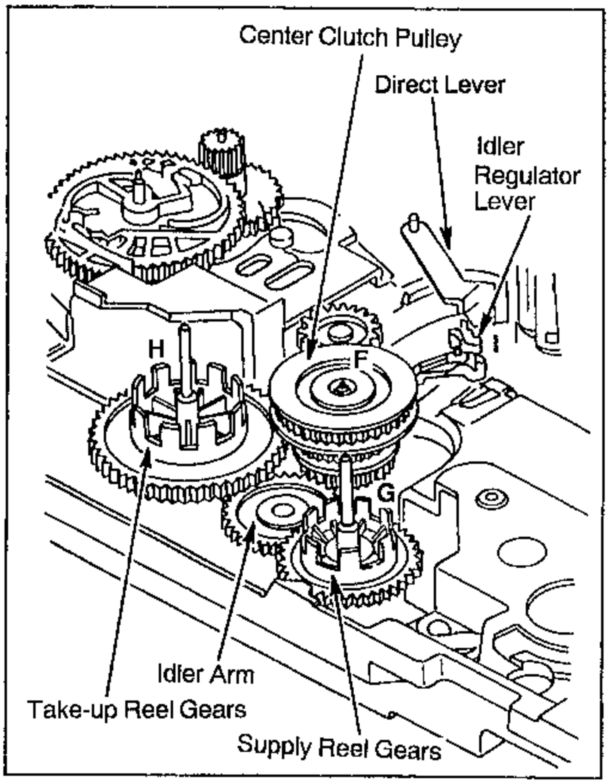

Center Clutch Pulley
Direct Lever
Idler Regulator Lever
H
F
I
G
Idler Arm
Take-up Reel Gears
Supply Reel Gears

Fig.M36

4-4. Assembly of Main Cam Gear and Sub Cam Gear

1. Install the Sub Cam Gear on to shaft (J) so that the chassis hole aligns with hole in the Sub Cam Gear.
2. Rotate the Holder Connection Gear to position of arrow mark as shown in Fig.M37.
3. Install the Main Cam Gear onto shaft (K) so that the hole of the Main Cam Gear aligns with the hole in the Sub Cam Gear. Also insert the boss of the Take-up Tension Regulator Arm into the slot on the Main Cam Gear.

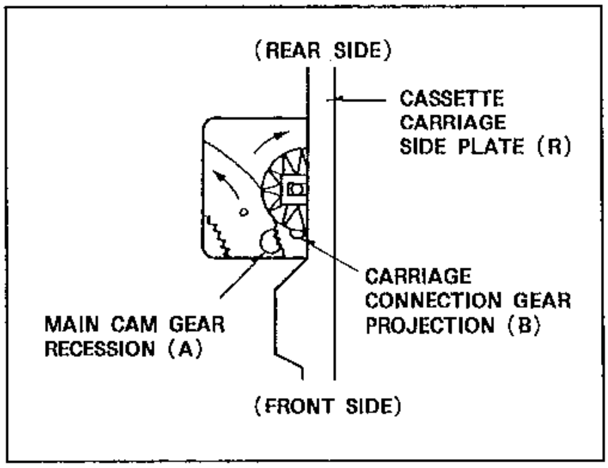

(REAR SIDE)
CASSETTE CARRIAGE SIDE PLATE (R)
CARRIAGE CONNECTION GEAR PROJECTION (B)
MAIN CAM GEAR RECESSION (A)
(FRONT SIDE)

Fig.M37

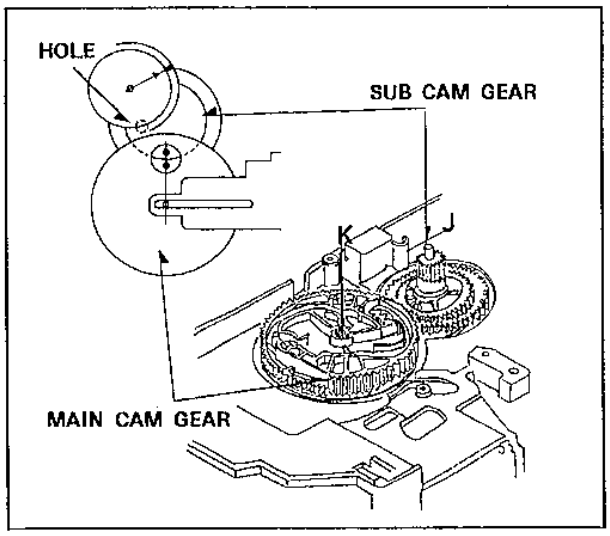

HOLE
SUB CAM GEAR
K
J
MAIN CAM GEAR

Fig.M38

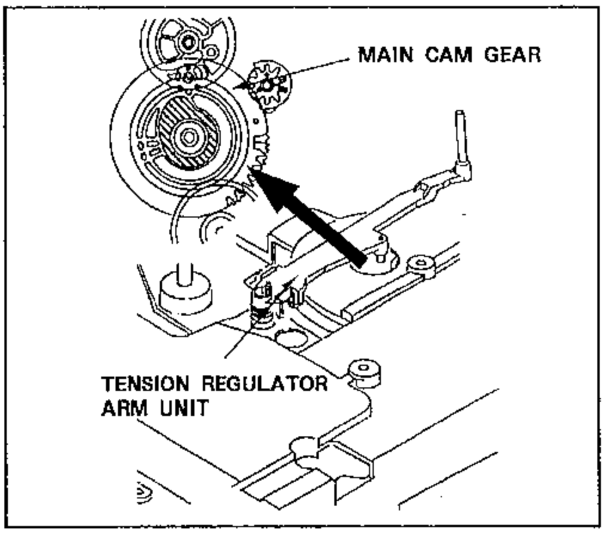

MAIN CAM GEAR
TENSION REGULATOR ARM UNIT

Fig.M39

4-5. Assembly of Mode Switch

1. Align a triangle mark on the Mode Switch Gear with the notch on the Mode Switch frame.
2. Confirm the Main and Sub Cam Gears aligned properly then install the Mode Switch with screw (L).

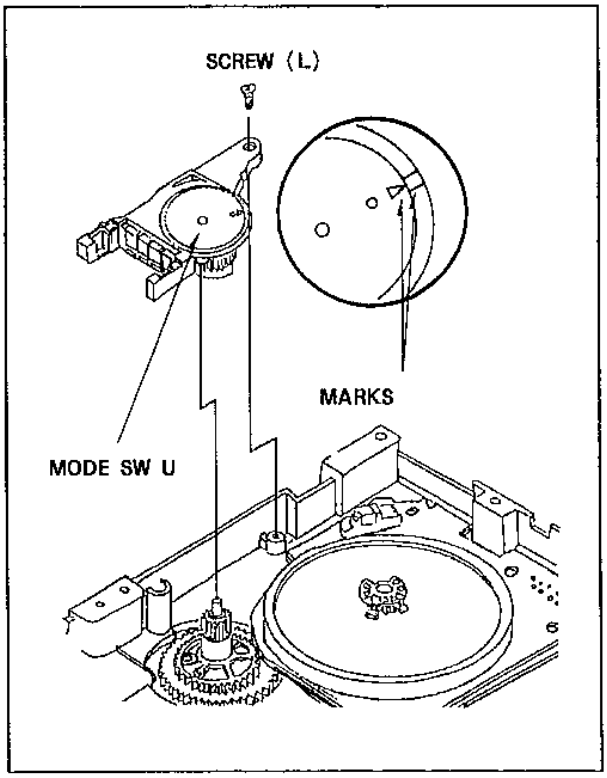

SCREW (L)
MARKS
MODE SW U

Fig.M40

4-6. Assembly of Take-up and Supply Loading Gears.

1. Install the Supply Loading Gear onto the shaft (S).
2. Install the Take-up Loading Gear onto the shaft (T) so that hole on the Take-up Loading Gear align with the hole on the Supply Loading Gear.
3. Install the Supply Loading Arm onto shaft of the Supply Inclined Base with washer.
4. Insert the Take-up Loading Arm onto shaft of the Take-up Inclined Base with washer.

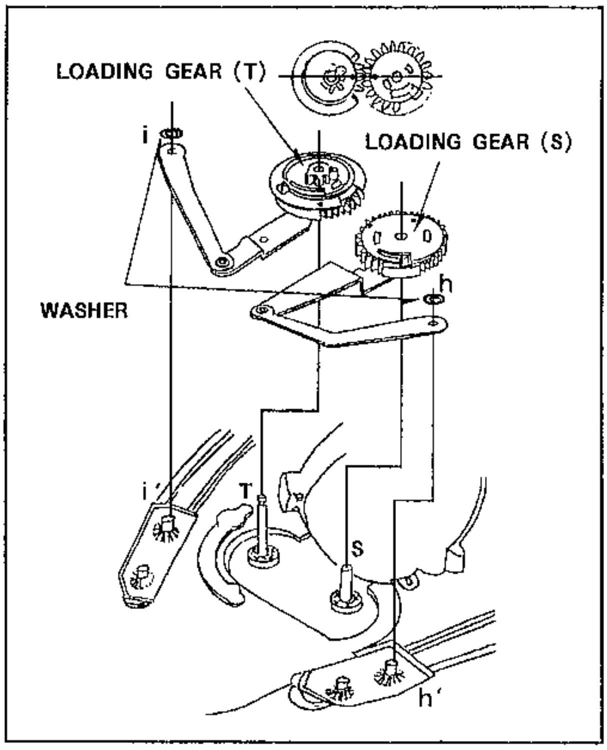

LOADING GEAR (T)
LOADING GEAR (S)
i
WASHER
h
i'
T
S
h'

Fig.M41

4-7. Assembly of Main Lever

1. Install the Main Lever Arm checking that the boss of arms and shafts are in correct position and mark on the Main Lever Arm is aligned with mark on the Take-up Loading Gear.
2. Insert the 2 cut washer as shown in Fig.M42.

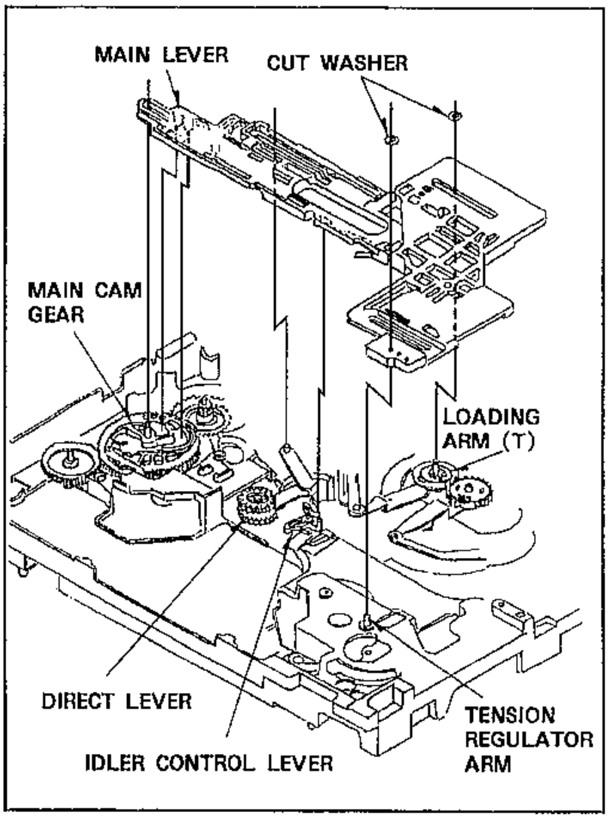

MAIN LEVER
CUT WASHER
MAIN CAM GEAR
LOADING ARM (T)
DIRECT LEVER
IDLER CONTROL LEVER
TENSION REGULATOR ARM

Fig.M42

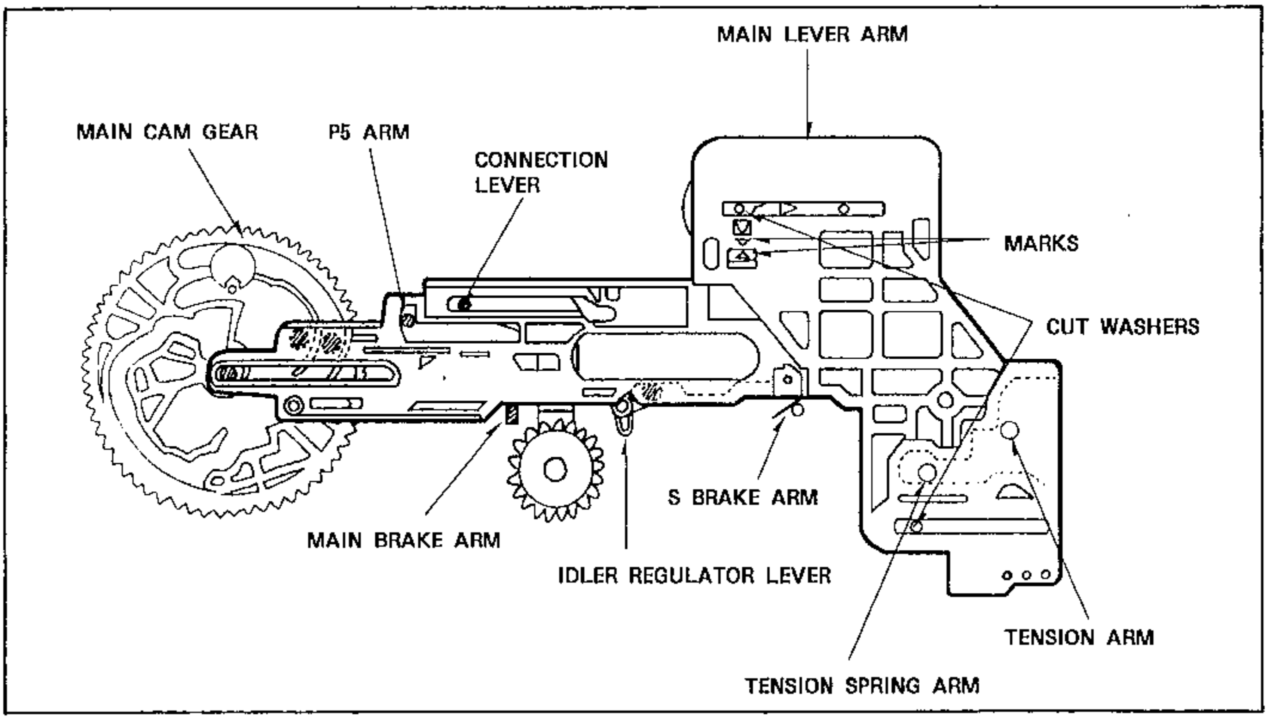

MAIN LEVER ARM
MAIN CAM GEAR
P5 ARM
CONNECTION LEVER
MARKS
CUT WASHERS
S BRAKE ARM
MAIN BRAKE ARM
IDLER REGULATOR LEVER
TENSION ARM
TENSION SPRING ARM

Fig.M43

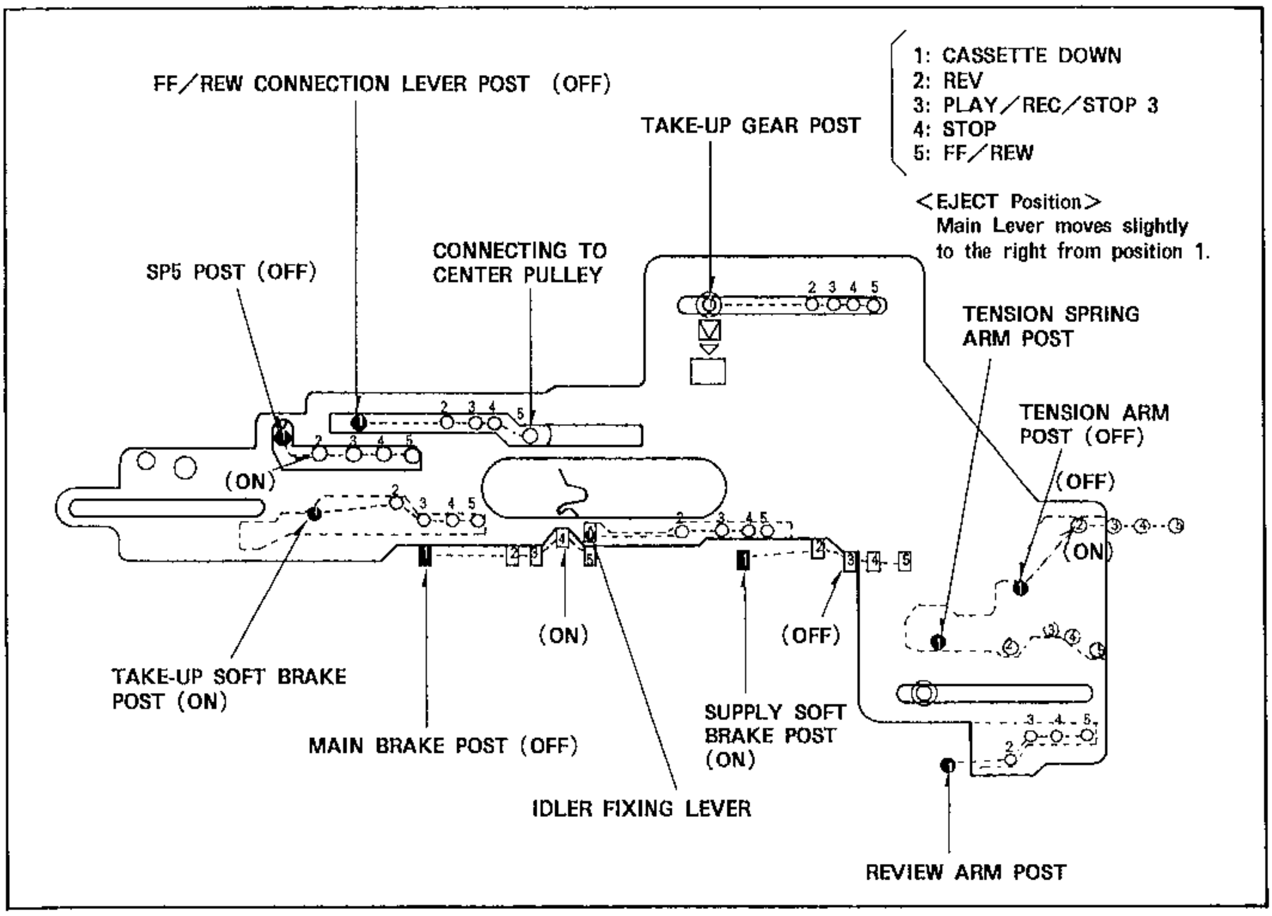

1: CASSETTE DOWN
2: REV
3: PLAY／REC／STOP 3
4: STOP
5: FF／REW
FF／REW CONNECTION LEVER POST (OFF)
TAKE-UP GEAR POST
<EJECT Position>
Main Lever moves slightly to the right from position 1.
SP5 POST (OFF)
CONNECTING TO CENTER PULLEY
TENSION SPRING ARM POST
TENSION ARM POST (OFF)
(OFF)
(ON)
(ON)
(ON)
(OFF)
TAKE-UP SOFT BRAKE POST (ON)
MAIN BRAKE POST (OFF)
SUPPLY SOFT BRAKE POST (ON)
IDLER FIXING LEVER
REVIEW ARM POST
2
3
4
5

Fig.M44

4-8. Reinstall of the Cassette Compartment

1. Push the locking tabs to direction as shown in Fig.M45 and remove the Top Plate.

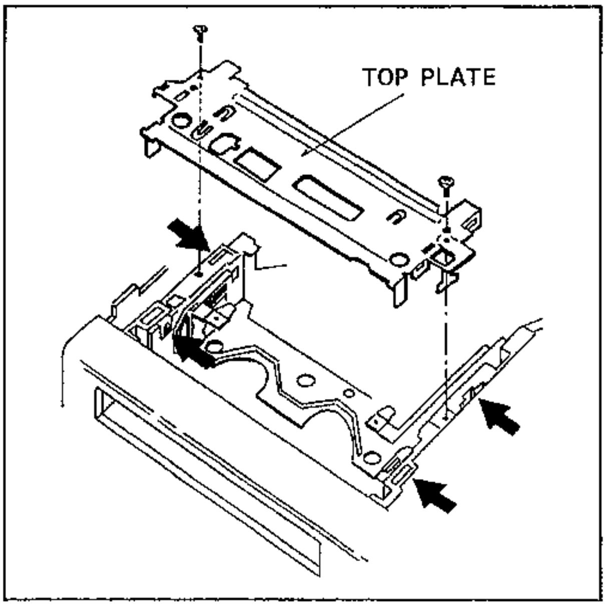


Fig.M45

2. Lift up the Cassette Holder Unit as shown in Fig.M46.

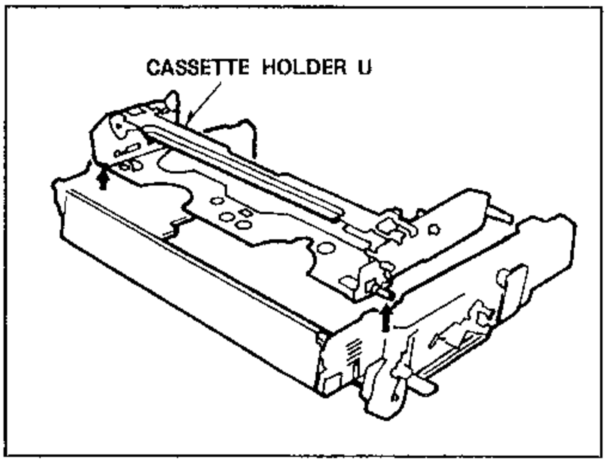

CASSETTE HOLDER U

Fig.M46

3. Press the Wiper Arm to direction indicated by arrow mark so that the Wiper Arm comes to cassette down position completely as shown in Fig.M48. Confirm a triangle mark on the Wiper Arm aligns with the mark on the Rack (B) Unit.

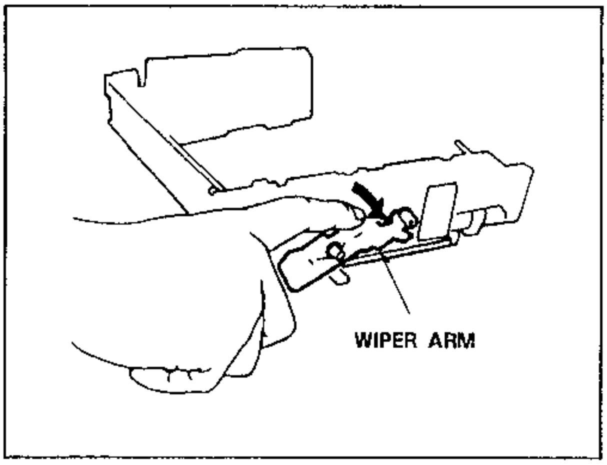


Fig.M47

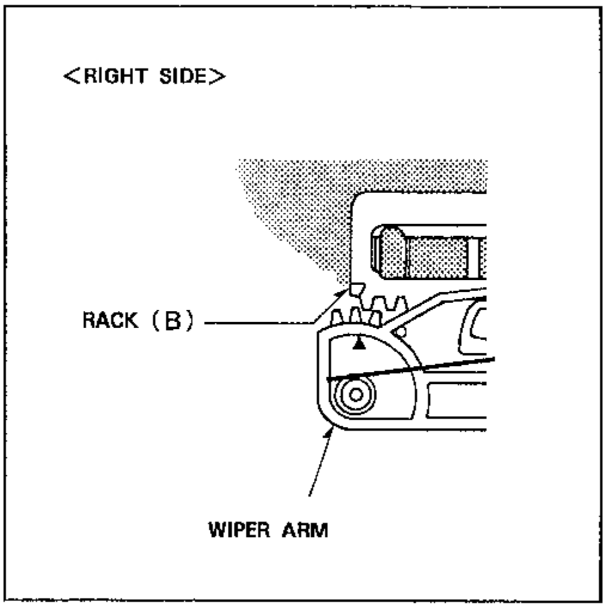

<RIGHT SIDE>
RACK (B)
WIPER ARM

Fig.M48

4. Install the cassette compartment (without cassette holder) to the mechanical chassis so that mark on the Holder Connection Gear should line up with first tooth of the Rack Gear as shown in Fig.M49.

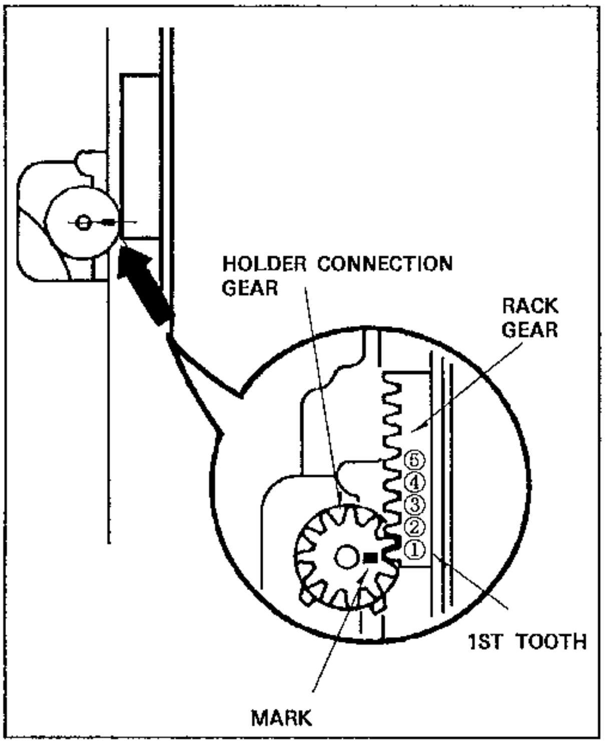

HOLDER CONNECTION GEAR
RACK GEAR
⑤
④
③
②
①
1ST TOOTH
MARK

Fig.M49

5. Tighten 4 screws as shown in Fig.M50.
6. Manually move the loading mechanism toward the EJECT position by turn the Loading Motor and stop just before completion, so that the Wiper Arm straight up.
7. Install the Cassette Holder Unit in the Cassette Compartment Base as shown in Fig.M51.
8. Install the Top Plate on the Cassette Compartment Base.
9. Manually confirm that front loading and main loading run smoothly.

<NOTE>

For proper front loading, the guide pin on the opener lever should follow the upper track of the right side panel as shown in Fig.M52.

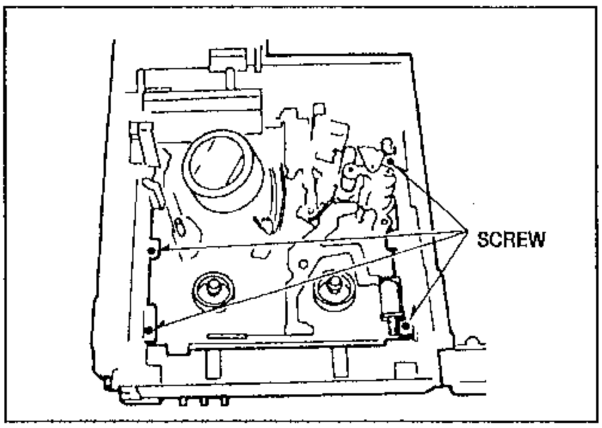


Fig.M50

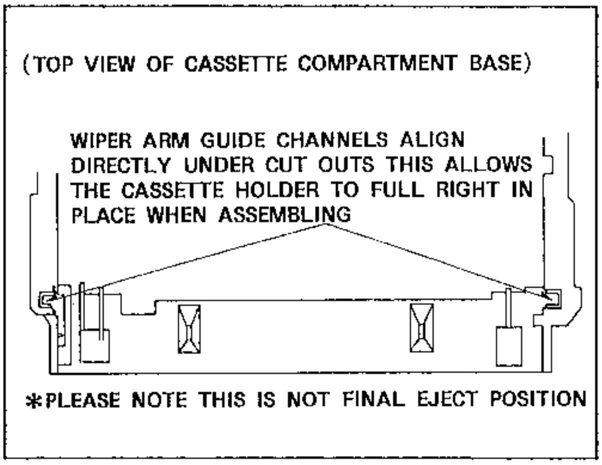

(TOP VIEW OF CASSETTE COMPARTMENT BASE)
WIPER ARM GUIDE CHANNELS ALIGN DIRECTLY UNDER CUT OUTS THIS ALLOWS THE CASSETTE HOLDER TO FULL RIGHT IN PLACE WHEN ASSEMBLING
*PLEASE NOTE THIS IS NOT FINAL EJECT POSITION

Fig.M51

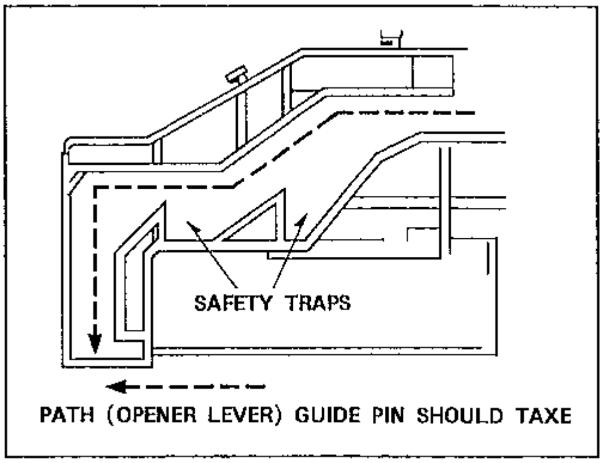

SAFETY TRAPS
PATH (OPENER LEVER) GUIDE PIN SHOULD TAXE

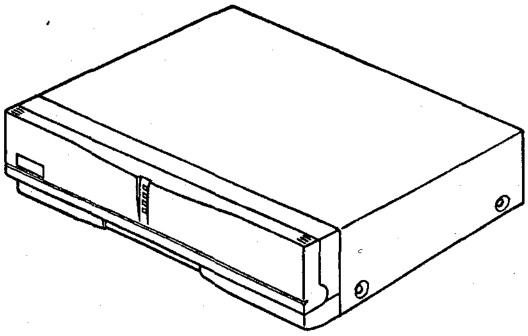
Fig.M52

Service Manual

S-VHS
625
VHS
PAL
Hi-Fi

Operating Instructions
Disassembly Procedures
Electrical Adjustment
Block / Schematic / Circuit Board Diagram
Exploded Views & Replacement Parts List

Video Cassette Recorder
AG-4700E
AG-4700B
K-MECHANISM



The mechanical chassis of this model is K Mechanical Chassis. Therefore refer to the Service Manual for K Mechanism. (Order No. VSD9402M632)

SPECIFICATIONS

ITEM	SPECIFICATION	
POWER	Source: 220 ~ 240V AC, 50 ~ 60Hz Consumption: 40 Watts	
RECORDING & TELEVISION SYSTEM	2 rotary heads, helical scanning system	
	CCIR 625 lines, 50 fields, PAL colour signal	
RF MODULATED	AG-4700E	UHF channel 36 ± 4, 75 Ω terminated
	AG-4700B	UHF channel 36 ± 6, 75 Ω terminated
VIDEO	HEADS	4 heads
	INPUT	EURO AV(AV1/AV2)(21 pin) 1.0 Vp-p, 75 Ω terminated VIDEO IN(AV3)(PHONO) 1.0 Vp-p, 75 Ω terminated S-VIDEO IN Y: 1.0 Vp-p, 75 Ω terminated C: 0.3 Vp-p, 75 Ω terminated
	OUTPUT	EURO AV(AV1/AV2)(21 pin) 1.0 Vp-p, 75 Ω terminated VIDEO IN(AV3)(PHONO) 1.0 Vp-p, 75 Ω terminated S-VIDEO IN Y: 1.0 Vp-p, 75 Ω terminated C: 0.3 Vp-p, 75 Ω terminated
	Horizontal Resolution (colour)	VHS: more than 240 lines(SP) S-VHS: more than 400 lines(SP, S-VIDEO Socket)
	S/N ration	VHS: more than 43 dB(SP,colour)

ITEM	SPRCIFICATION	
AUDIO	HEADS	1 stationary head(normal) 2 rotary heads(Hi-Fi)
	TRACK	1 track(normal, mono) 2 channels(Hi-Fi, stereo)
	INPUT	EURO AV(AV1/AV2)(21 pin) −6 dBV, more than 10 kΩ AUDIO IN(AV3)(PHONO) −10 dBV, more than 47 kΩ MIC(M3) −70 dBV
	OUTPUT	EURO AV(AV1/AV2)(21 pin) −6 dBV, less than 1 kΩ AUDIO IN(AV3)(PHONO) −8 dBV, less than 1 kΩ HEADPHONES(M3) −30 dBV, 8 Ω
	Dynamic Range: more than 90 dB (Hi-Fi) Frequency Response: 20 Hz~ 20 kHz (Hi-Fi) Wow and Flutter: 0.005% Wrms (Hi-Fi)	
TAPE SPEED	SP: 23.39 mm/sec. LP: 11.7 mm/sec. Recording Time: 520 min. with NV-SE260 (LP mode) 260 min. with NV-SE260 (SP mode)	
TAPE FORMAT	S-VHS/VHS	
OPERATING CONDITION	Temperature: 5℃ ~ 40℃	
	Humidity: 35% ~ 80%	
DIMENSIONS	430(W) × 118(H) × 395(D) mm	
WEIGHT	7.0kg	

Panasonic

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

INTRODUCTION

This service manual contains the technical information which service personnel to understand and service the Panasonic VCR model AG-4700.
Please use this service manual together with the Service Manual for mechanical adjustments and maintenance procedures of K-Mechanism (Order No. VSD6402M632).

CONTENTS

SAFETY PRECAUTIONS

SECTION 1 GENERAL DESCRIPTIONS 1-1

1-1. SERVICE INFORMATION 1-1
1-2. SERIAL CLOCK TRANSMISSION ERROR DISPLAY 1-6
1-3. SERVICE INFORMATION DISPLAY 1-6
1-4. TECHNICAL INFORMATION 1-12
1-5. OPERATING INSTRUCTIONS 1-21

SECTION 2 ADJUSTMENT PROCEDURES 2-1

2-1. DISASSEMBLY METHOD 2-1
2-2. MECHANICAL ADJUSTMENT PROCEDURES 2-4
2-3. DISASSEMBLY PROCEDURES OF MECHANISM 2-4
2-4. ASSEMBLY PROCEDURES OF MECHANISM 2-4
2-5. MAINTENANCE 2-4
2-6. ELECTRICAL ADJUSTMENT PROCEDURES 2-9
2-7. DIMENSIONS 2-20

SECTION 3 BLOCK DIAGRAMS 3-1

3-1. ABBREVIATIONS 3-1
3-2. EDIT BLOCK DIAGRAM 3-5
3-3. VITC BLOCK DIAGRAM 3-7
3-4. SYSTEM CONTROL & SERVO BLOCK DIAGRAM 3-9
3-5. LUMINANCE & CHROMINANCE BLOCK DIAGRAM 3-14
3-6. TBC BLOCK DIAGRAM 3-19
3-7. Hi-Fi AUDIO BLOCK DIAGRAM 3-22

SECTION 4 SCHEMATIC DIAGRAMS 4-1

4-1. POWER SCHEMATIC DIAGRAM 4-1
4-2. POWER C.B.A. 4-4
4-3. SYSTEM CONTROL & SERVO SECTION IN MAIN SCHEMATIC DIAGRAM 4-6
4-4. AUDIO SECTION IN MAIN & SUB AUDIO PACK SCHEMATIC DIAGRAM 4-14
4-5. LUMINANCE & CHROMINANCE SECTION IN MAIN SCHEMATIC DIAGRAM 4-17
4-6. MAIN C.B.A. 4-21
4-7. CAPSTAN DRIVE PACK SCHEMATIC DIAGRAM 4-25
4-8. CAPSTAN DRIVE PACK C.B.A. 4-28
4-9. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM 4-30
4-10. LUMINANCE & CHROMINANCE PACK C.B.A. 4-35
4-11. SUB LUMINANCE & CHROMINANCE PACK C.B.A. 4-38
4-12. SUB LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM 4-41
4-13. TBC SCHEMATIC DIAGRAM 4-46
4-14. TBC C.B.A. 4-51
4-15. INPUT/OUTPUT PACK C.B.A. 4-53
4-16. INPUT/OUTPUT PACK SCHEMATIC DIAGRAM 4-55
4-17. Hi-Fi AUDIO PACK SCHEMATIC DIAGRAM 4-58
4-18. Hi-Fi AUDIO PACK C.B.A. 4-61
4-19. VITC SCHEMATIC DIAGRAM 4-64
4-20. VITC C.B.A. 4-66
4-21. HEAD AMP SCHEMATIC DIAGRAM 4-67
4-22. HEAD AMP C.B.A. 4-70
4-23. TIMER & VR SCHEMATIC DIAGRAM 4-72
4-24. TIMER C.B.A. & VR C.B.A. 4-77
4-25. TV DEMODULATOR PACK SCHEMATIC DIAGRAM (AG-4700B) 4-82
4-26. TV DEMODULATOR PACK C.B.A. (AG-4700B) 4-85
4-27. TV DEMODULATOR PACK SCHEMATIC DIAGRAM (AG-4700E) 4-87
4-28. TV DEMODULATOR PACK C.B.A. (AG-4700E) 4-89
4-29. NICAM DECODER PACK C.B.A. (AG-4700B) 4-91
4-30. NICAM DECODER PACK SCHEMATIC DIAGRAM (AG-4700B) 4-95
4-31. DECODER PACK SCHEMATIC DIAGRAM (AG-4700E) 4-98
4-32. DECODER PACK C.B.A. (AG-4700E) 4-100
4-33. INTERCONNECTION SCHEMATIC DIAGRAM 4-101

SECTION 5 EXPLODED VIEWS & PARTS LIST 5-1

5-1. EXPLODED VIEW & MECHANICAL REPLACEMENT PARTS LIST 5-1
5-2. ELECTRICAL REPLACEMENT PARTS LIST 5-8

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing observe the original lead dress. If a short circuit is found, replac all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protectiv devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs onthe plug.
2. Measur the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwhead connectors, contrl shafts, etc. When the exposed metallic part has a return path to the chassis, the reading shoulb be between 1MΩ and 5.2MΩ.
   When the exposed metal dose not have a return path to the chassis, the reading must be ∞.

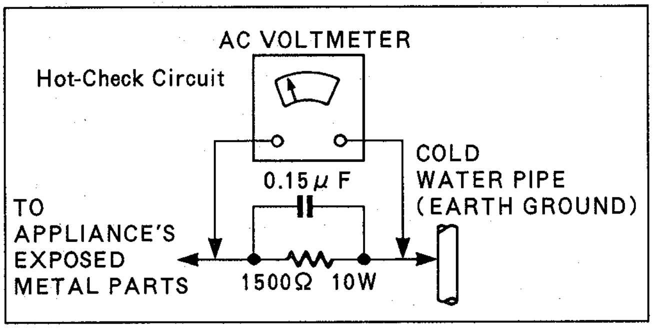


Figure 1

LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. Plug the AC cord directly into the AC outlet.
   Do not use an isolation transformer for this check.
2. Connect a 1.5KΩ, 10W resistor, inparallel with 0.15µF capacitor, between each exposed metallic part on the set an a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measur the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possiblity of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ELECTROSTATICALLY SENSITIVE(ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
   Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package untilimmediately before you are ready to install it. (most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all otner asfety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devoces. (Otherwise harmless mother such as the brushing together of your clothes fabric or the lifting of your foor from a carpeted floor can generate static electricity sufficient to damage an ES device).

SECTION 1
GENERAL DESCRIPTIONS

1-1. SERVICE INFORMATION

1-1-1. K-MECHANISM INFORMATION

A. SERVICE POSITION

When servicing the K-Mechanism, the Mechanism can easily be fixed by standing the Mechanism up in the Main Frame as shown below to check easily.

In this position, the following services are possible.

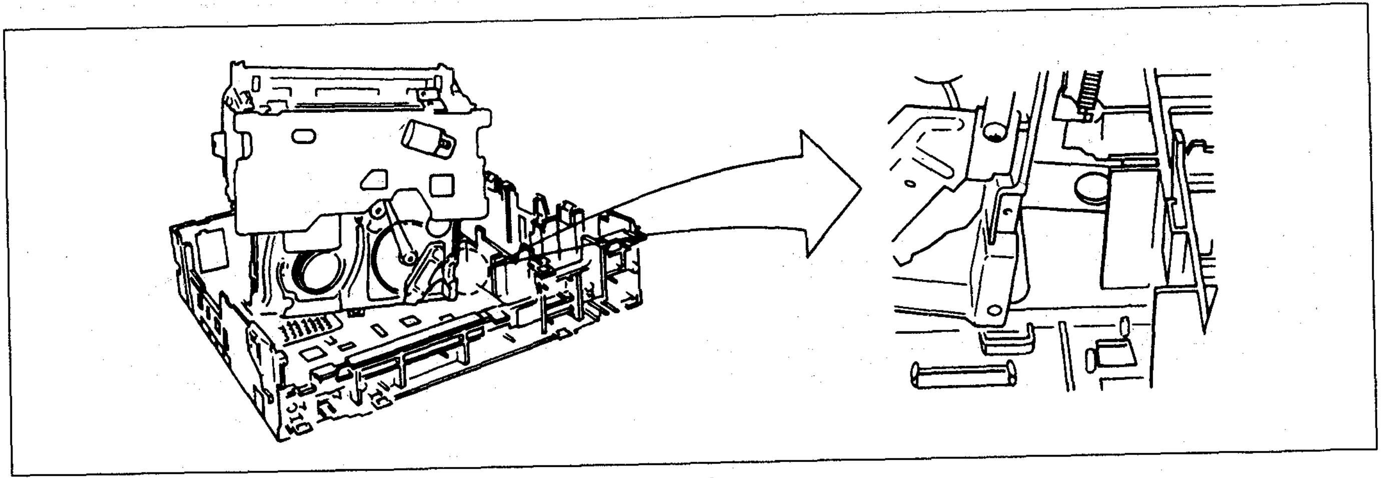


Fig. S1

A-1. CHECKING OF GEAR PHASE ALIGNMENT CONDITION

1) Remove the Mechanism Connection C.B.A.
2) Check gear phase Alignment Condition of Mechanism described on the bottom side of Frame.

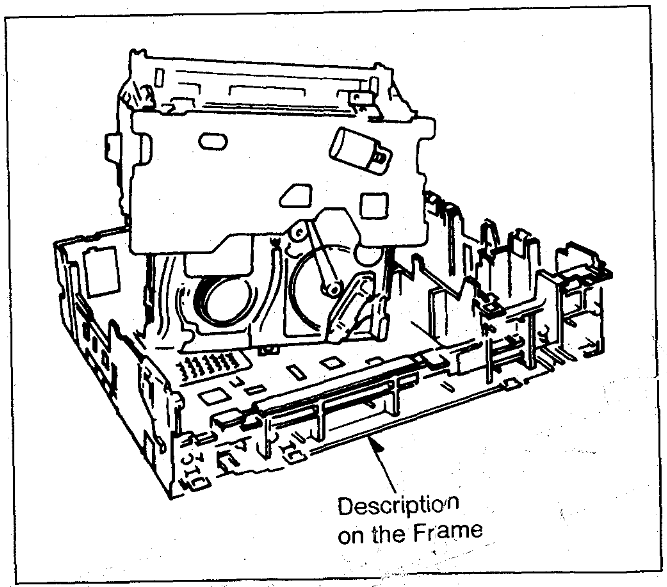


Fig. S2

A-2. CHECKING OF LOADING/UNLOADING OPERATION

There are 3 methods for manual operation of loading/unloading operation as follows.

1. HAND OPERATION
   1) Remove the Mechanism Connection C.B.A.
   2) Turn the Worm Gear or the WORM WHEEL GEAR (Remove the Loading Motor Unit) manually.

2. BATTERY OPERATION
   1) Remove the Mechanism Connection C.B.A.
   2) Connect the Battery (Manganes-Type R6 (AA) 3pcs./+4.5V) to the Loading Motor terminals.

3. SERVICE INFORMATION DISPLAY OPERATION
   1) Set the Service Information Display mode. (Press the “FF”, “REW” and “EJECT” buttons simultaneously.)
   2) Press the “FF”, “REW” and “EJECT” buttons 7 times to set the Service Mode 7. (The end of display on the Display becomes “--”.)
   3) In the above Service Information Display mode, the Loading Motor rotates for Loading operation when the “PLAY” button is pressed.
      The Loading Motor rotates for unloading operation when the “STOP” button is pressed.

Remark:
Use the “SERVICE INFORMATION DISPLAY” mode for a final check of mechanism movement.

A-3. CHECKING OF REEL GEARS OPERATION

1) Remove the Mechanism Connection C.B.A.
2) Move the mechanism to "PLAY" position by loading operation. (Refer to <A-2>)
3) Turn the "Rotor Unit" to check movement of reel gears.

B. CYLINDER UNIT REPLACEMENT

The Cylinder Unit can be replaced easily by the following method.

1) Remove the Top Panel.
2) Remove the 3 screws of the Cylinder Unit with a magnetized screw driver through the holes on the Bottom Plate as shown in Fig. S3.

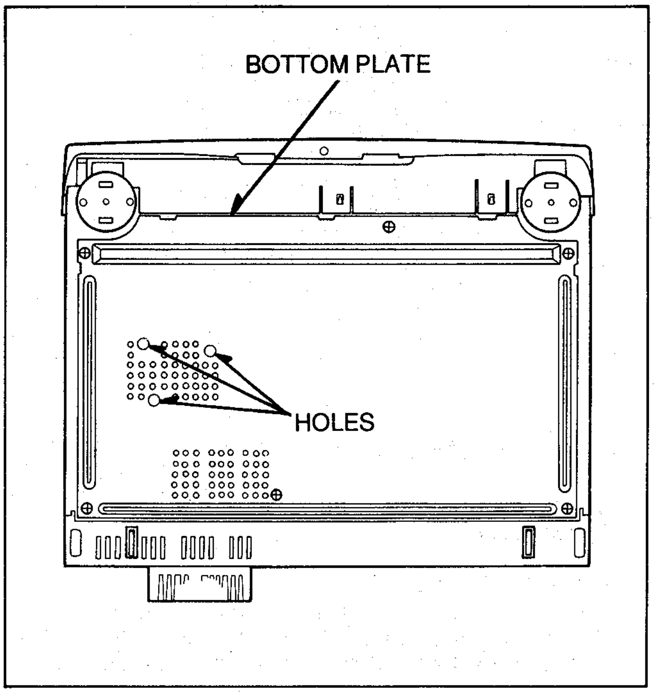

BOTTOM PLATE
HOLES

Fig. S3

C. CAPSTAN STATOR UNIT ASSEMBLY

When replacing the CAPSTAN STATOR UNIT, the CENTRE FIXING TOOL (VFK0851) must be used to fix the centre of CAPSTAN STATOR UNIT.

Method:

1) Place the CAPSTAN STATOR UNIT into position.
2) Loosely tighten the 3 screws.
3) Insert the CENTRE FIXING TOOL (VFK0851) as shown in Fig. S4.
4) Tighten the 3 screws.
5) Remove the CENTRE FIXING TOOL.

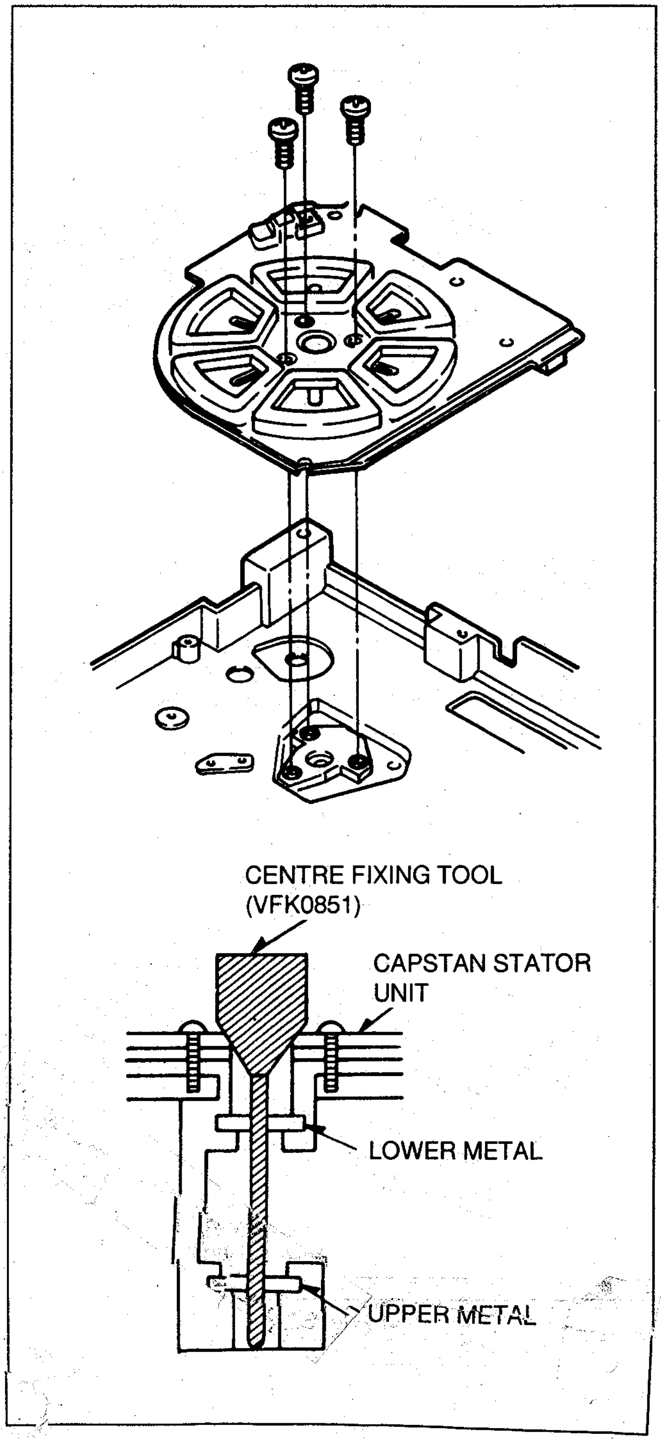

CENTRE FIXING TOOL
(VFK0851)
CAPSTAN STATOR UNIT
LOWER METAL
UPPER METAL

Fig. S4

D. EJECT OPERATION

The main cam gear rotates in the direction of the arrow. The projection (B) of the carriage connection gear engages with the recession (A) of the main cam gear. The carriage connection gear rotates in the direction of the arrow to perform the Eject operation.

<NOTE>
If the Eject operation is performed without the cassette carriage installed while repairing or making the mechanical phase alignment, the main cam gear will not engage with the carriage connection gear and will not rotate.
To perform the Eject operation with the cassette carriage not installed, it is necessary to rotate the carriage connection gear by hand in the direction of the arrow.

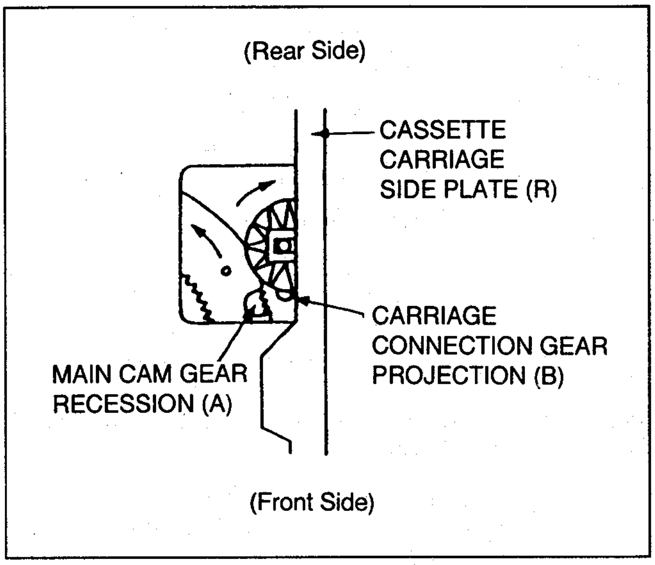

(Rear Side)
CASSETTE CARRIAGE SIDE PLATE (R)
CARRIAGE CONNECTION GEAR PROJECTION (B)
MAIN CAM GEAR RECESSION (A)
(Front Side)

Fig. S5 Top View of Eject Operation

E. TAKE-UP PHOTO SENSOR OPERATION

Note the following matters for Take-up Photo Sensor Operation.

1) While servicing of the K-Mechanism, the unit will not operate properly if a strong light (ex, Fluorescent light, Spot light) falls on the Take-up Photo Sensor. In this case, cover the Take-up Photo Sensor to prevent the light from falling on it.
2) While servicing of the K-Mechanism with "Power On" and without cassette tape inserted, the Unit does not operate properly.

F. POWER TRANSISTOR SERVICING

When removing the connector of the Power Transistor, hold the Power Transistor by hand to prevent damage.

1-1-2. REMOVAL OF THE CASSETTE TAPE

If the electrical circuit is defective and the action of unloading and front unloading do not work properly, it is possible to remove the cassette manually. There are 2 methods of removing the cassette.

1. HAND OPERATION

1) Remove the bottom plate.
2) Turn the WORM GEAR to "A" arrow mark direction manually as shown in Fig. S6, moving the LOADING POST to the unloaded position.
3) Turn the CAPSTAN clockwise to take up the tape.
4) **Turn the WORM GEAR again to eject the cassette.**

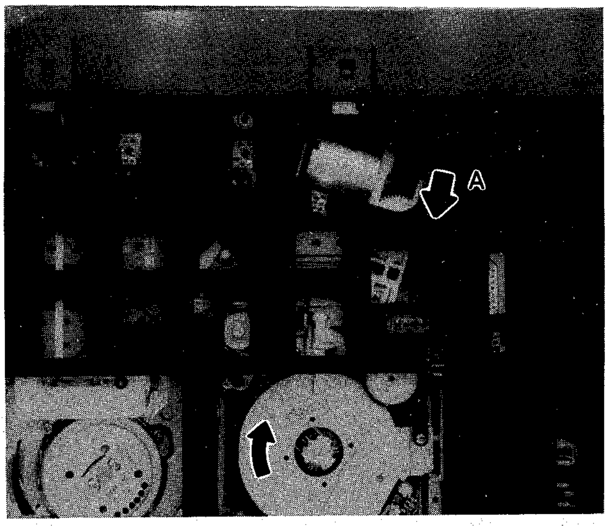


Fig. S6

2. BATTERY OPERATION

1) Connect the Battery (Manganes-Type R6 (AA) 3pcs./ +4.5V) to P1503 as shown in Fig. S7.
2) After moving the LOADING POST to the unloaded position, disconnect the battery to stop the motor.
3) Turn the CAPSTAN to clockwise to take up the tape.
4) Reconnect the battery to eject the cassette.

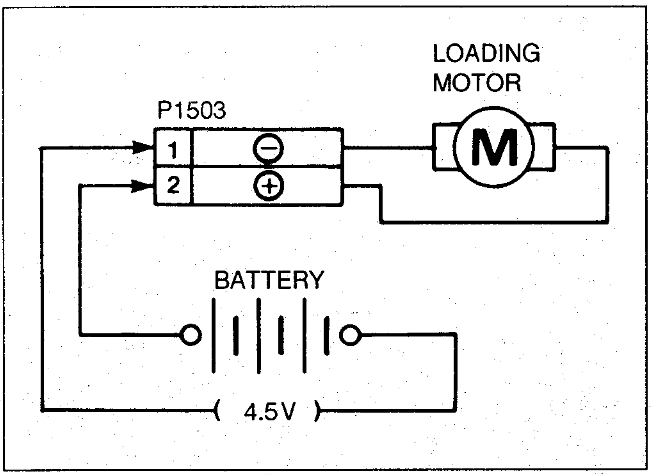


Fig. S7

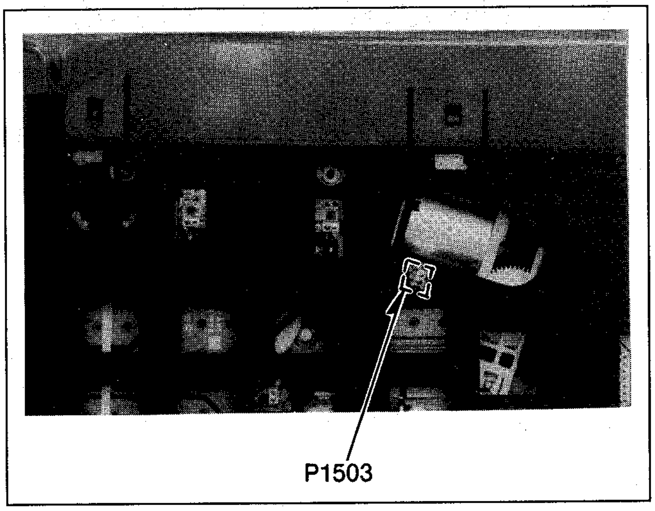


Fig. S8

If the cassette tape can not be removed by the above 2 methods, remove it by the following method.

1) Remove the Top Panel.
2) Remove the Front Panel Unit.
3) Lift up the Pinch Arm after removing spring.
4) Push the P5 Arm and remove the cassette tape from tape transportation (P1, P2, P3 and P5 Posts).
5) Turn the Capstan Motor to take up the tape.
6) Remove 1 screw from the Side Plate (R) Unit to disconnect the Rack Gear from the Carriage Connection Gear.
7) Take out the cassette tape from the Cassette Compartment.

1-1-3. FLAT CARD CABLE INSTLLATION

When installing the Flat Card Cable on the connector, install the Flat Card Cable with the cable contacts facing the connector contacts.

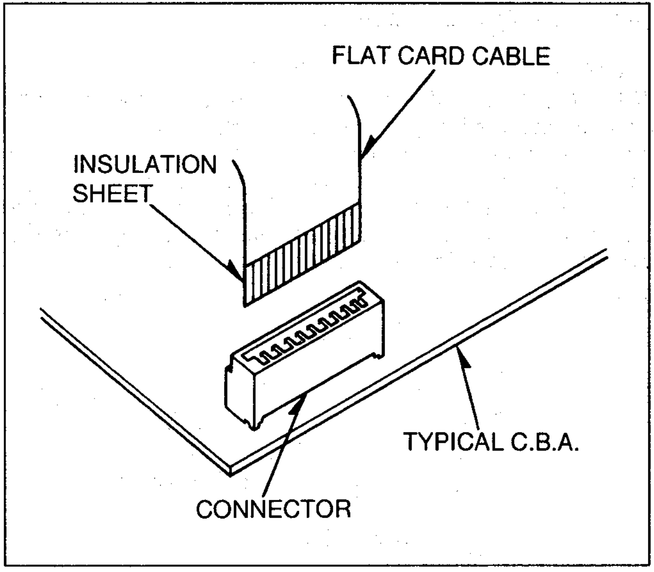


Fig. S9

1-1-4. CHANNEL MEMORY IC INITIALIZATION

When replacing the channel memory IC7503 (XLJ9021B), its IC should be initialized.

Note: 1) It should be performed before tuning.
2) Do not turn off the power source during initialization or 1 second after.
3) Meaning of "INITIALIZATION" is to erase the "SKIP CH" In other words the number of channel position is the same as displayed channel.

Method:
1) Press the CH UP/DOWN Button so that the channel indicator indicates "3".
2) Connect a jumper wire between Pin 54 and Pin 35 of IC7501 for more than 1 second.
3) Channel indication changes from "3" to "1".

1-1-5. SERVICING THE PACK C.B.A.

When servicing the CAP Drive Pack C.B.A., Sub Audio Pack C.B.A., Luminance & Chrominance Pack C.B.A., Sub Luminance & Chrominance Pack C.B.A. and TV Demodulator Pack C.B.A., connections of extention cable are necessary as shown below.

PART NO	PART NAME	PCS	CONNECTION
VFK0678	18P EXTENTION CABLE	2	MAIN (PP3011) – SUB L/C (PS3303) MAIN (PP3012) – SUB L/C (PS3302)
VFK0764	10P EXTENTION CABLE	1	MAIN (PP2002) – CAP DRIVE (PS2002)
VFK0918	17P EXTENTION CABLE	1	MAIN (PP4501) – SUB AUDIO (PS4501)
VFK0937	9P EXTENTION CABLE	1	MAIN (PP3001) – L/C (PS301)
VFK0938	12P EXTENTION CABLE	2	MAIN (PP3002) – L/C (PS302) MAIN (PP2001) – CAP DRIVE (PS2001)
VFK0939	13P EXTENTION CABLE	1	MAIN (PP3003) – L/C (PS303)
VFK0940	14P EXTENTION CABLE	1	MAIN (PP3013) – SUB L/C (PS3501)
VFK0944	5P EXTENTION CABLE	3	MAIN (PP7401) – TV DEMODU (PS701) MAIN (PP7402) – TV DEMODU (PS702) MAIN (PP7403) – TV DEMODU (PS703)
VFK0890	6P EXTENTION CABLE	1	MAIN (PP7404) – TV DEMODU (PS704)

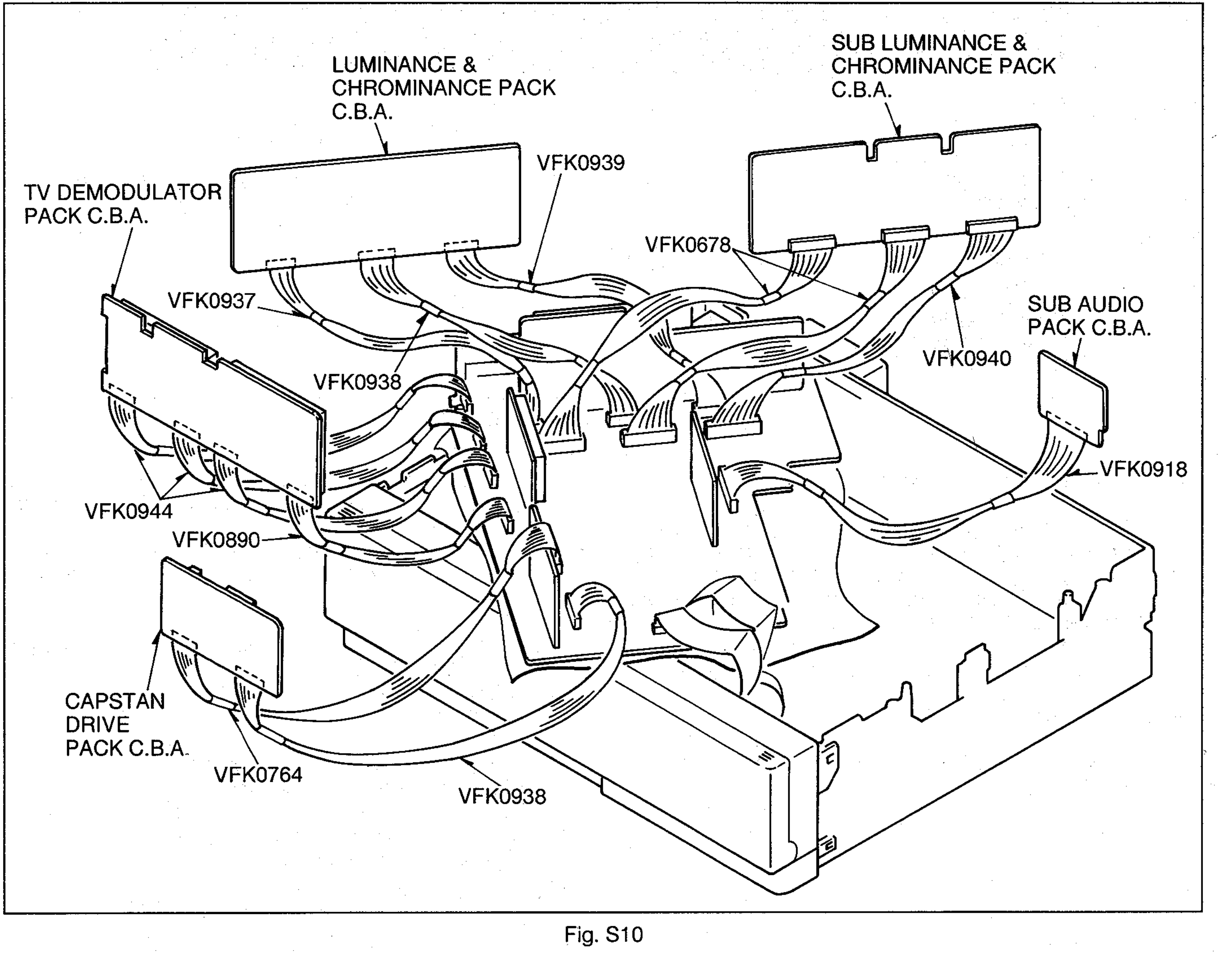

LUMINANCE & CHROMINANCE PACK C.B.A.
SUB LUMINANCE & CHROMINANCE PACK C.B.A.
VFK0939
TV DEMODULATOR PACK C.B.A.
VFK0678
VFK0937
SUB AUDIO PACK C.B.A.
VFK0940
VFK0938
VFK0918
VFK0944
VFK0890
CAPSTAN DRIVE PACK C.B.A.
VFK0764
VFK0938

Fig. S10

1-2. SERIAL CLOCK TRANSMISSION ERROR DISPLAY

If the Serial Clock is not transmitted from IC6001 to IC7501, "E9" is displayed as shown in Fig. T1. This indication will be displayed either during the Service Information Display mode or in normal mode.

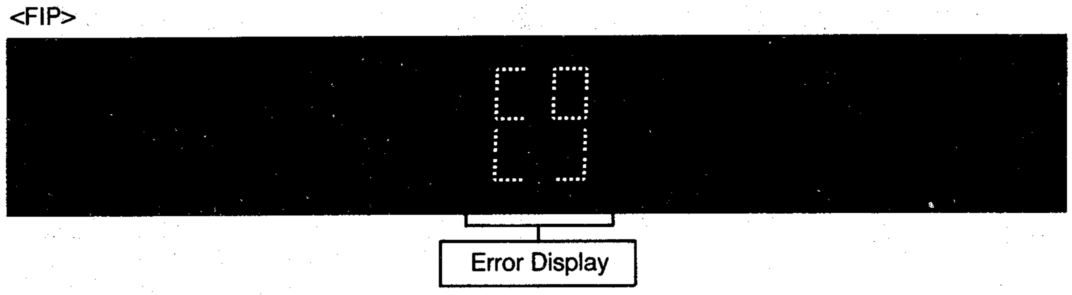
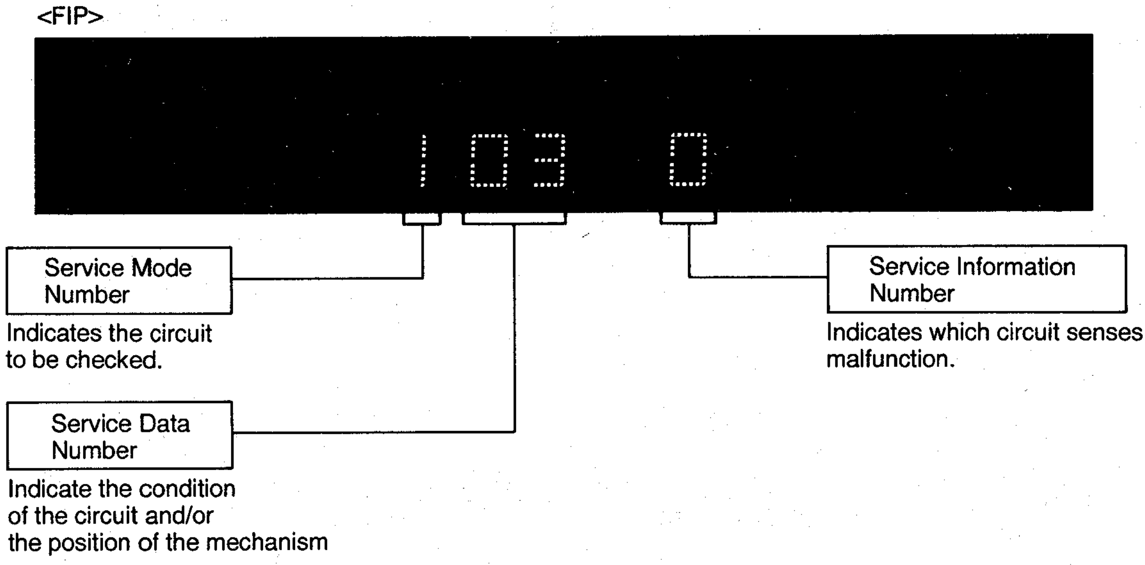


Fig. T1 Serial Data/Clock Transmission Error Display

1-3. SERVICE INFORMATION DISPLAY



Indicates the circuit to be checked.

Indicates which circuit senses a malfunction.

Indicate the condition of the circuit and/or the position of the mechanism

Fig. D1 Service Information Display

1-3-1. Purpose of Service Information Display

This information aids trouble shooting by indicating the source of the malfunction. The service mode number & service data number are used by the technician during repair while the service information can be used by the consumer to diagnose malfunctions allowing the technician to provide a more accurate repair cost estimate and reduce repair time.

1-3-2. Turning on Service Information Display

There are two ways to turn on the Service Information Display.

(1) Press the FF, REW and EJECT buttons simultaneously. The Service Information will be displayed for 1 minute.
(2) Connecting a Jumper wire between TP6010 and TP6011 will display the service information indefinitely.

In the Service Information Display, there are four digits divided into 3 functions.
The first digit indicates which of the 7 service modes that the unit is currently in.

MODE 1 : Checks tape protection circuit
MODE 2 : Checks tape transport mechanism
MODE 3 : Checks mode switching operation
MODE 4 : Checks control buttons
MODE 5 : Checks capstan motor
MODE 6 : Checks cylinder motor
MODE 7 : Checks loading/unloading operation

The second and third digits are service data which indicate the condition of the circuit or mechanism being checked.

The forth digit is the service Information display. It is to be used by the consumer to help determine the source of a malfunction. The service information display operates independently of the service modes and stores the fault indication in memory for as long as AC power is supplied.

1-3-3. Use of Service Modes

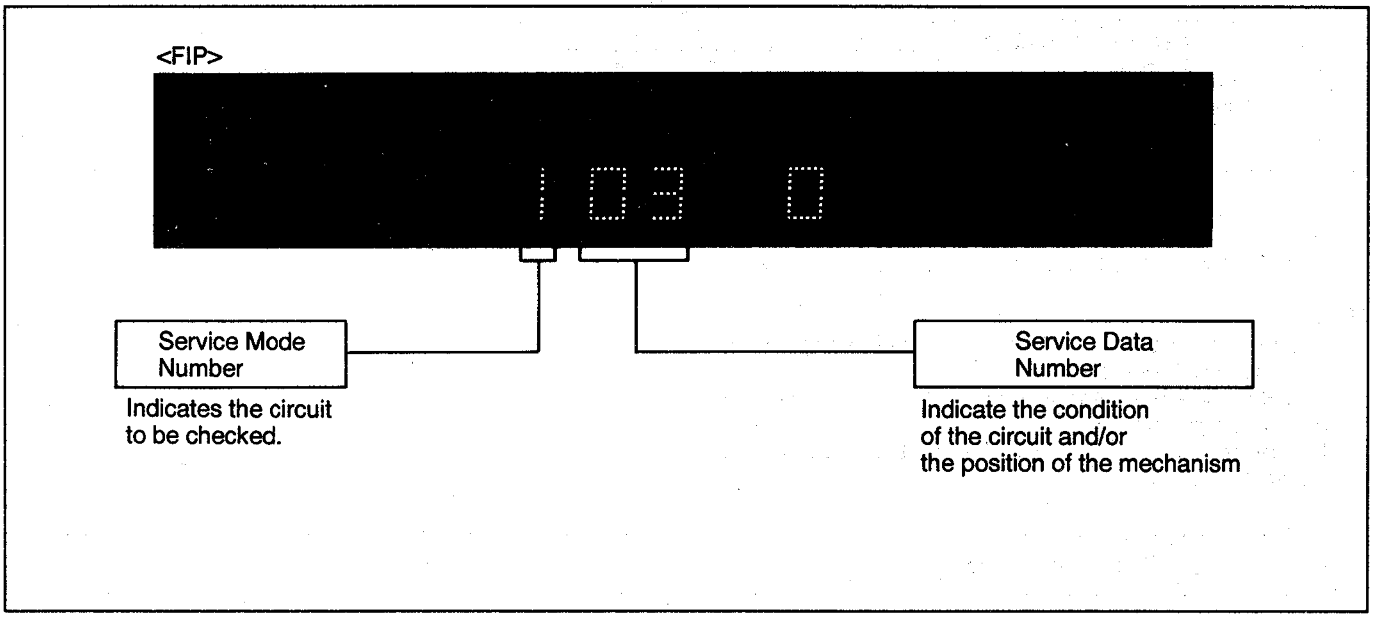
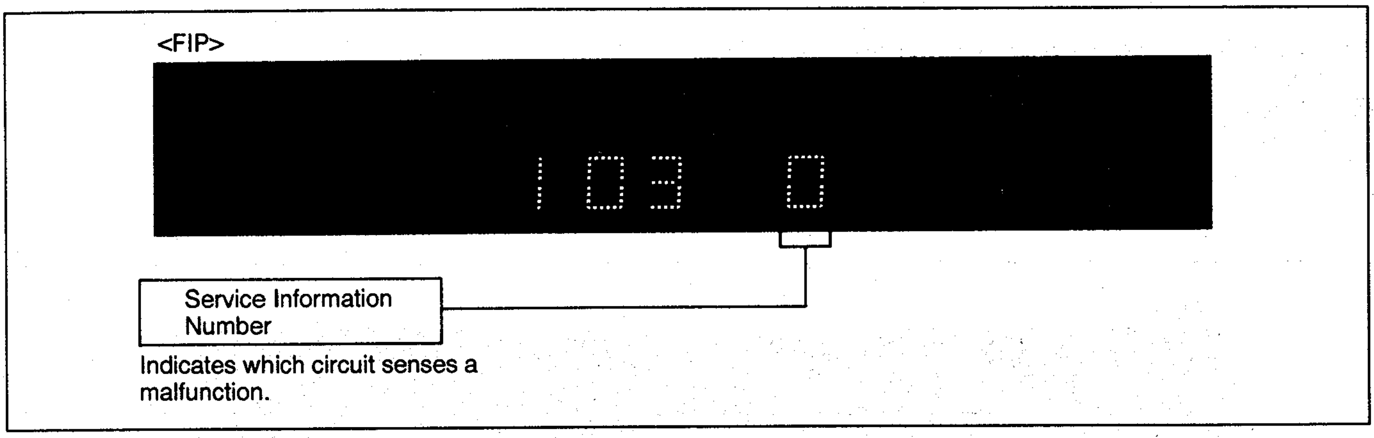

<FIP>
1 03 0
Service Mode Number
Indicates the circuit to be checked.
Service Data Number
Indicate the condition of the circuit and/or the position of the mechanism

Fig. D2 Service Mode Number and Service Data Number on S.I.D.

(1) Turn on Service Information Display.
(2) To change Service Modes press the FF, REW and EJECT buttons simultaneously.
(3) Mode 1: Checks that the Sensor LED, Supply & Take-up Sensor circuits check the circuits by blocking the light from the Sensor LED to either or both Supply & Take-up Sensors. When the light is blocked to both sensors, "00" should be indicated on the service data number. When the light is blocked to the supply sensor, "01" should be indicated.
(4) Mode 2: Checks the mode switch circuit while indicating mechanism position. Service Data Numbers indicate the position of the mode switch and there by the mechanism position.
(5) Mode 3: Checks that mode switch circuit operations have been completed. Service Data Number should indicate "00" after each mechanism operation is completed.
(6) Mode 4: Checks the operation circuit. Indicates if IC6001 receives the operating commands from the mode buttons and/or remote controller.
(7) Mode 5: Checks the capstan motor circuit. Indicates if the IC6001 has received the command to rotate the capstan motor.
(8) Mode 6: Checks the cylinder motor circuit. IC6001 has received the command to rotate the cylinder motor.
(9) Mode 7: Checks the Loading/Unloading Operation. The Loading Motor rotates for loading operation when the "PLAY" button pressed. The Loading Motor rotates for unloading operation when the "STOP" button is pressed. This mode can be displayed indefinitely until the OPERATE button is pressed.

<NOTE>
Refer to Fig. D5 for details of Service Data Number.

1-3-4. Service Information Number



Service Information Number

Indicates which circuit senses a malfunction.

Fig. D3 Service Information Number on S.I.D.

Refer to Fig. D4 for details of Service Information Number.

Note:
The Service Information Number display is independent of the service mode display.
The Service Information Number will be stored as long as AC power is supplied.
If a second error occurs, only the most recent error will be displayed.

Service Information Number	Malfunction
0	Normal (No problem)
1	Cylinder stop
2	Tape reel stop
3	Stop at position other than 4 or 6
4	Stop during unloading
5	Faulty capstan rotation
6	Stop during Cassette-In/Eject operation

Fig. D4 Service Information

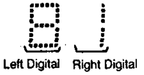
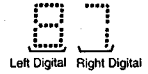
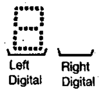
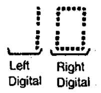
Service mode Number	Note for checking Service Data Numbers	Service Data Numbers	Indication	Remarks
1	—	00	No light detected at either sensor	Tape not required
		01	Tape Begining. Light to Supply Photo Sensor is blocked.	
		02	Tape End. Light to Take-up Photo Sensor is blocked.	
		03	Light detected at both sensors.	
2	—	00	EJECT	Tape Reuired ∗1 : STOP3; The Pinch Roller is on the capstan motor shaft. ∗2 : STOP; The Pinch Roller is off the capstan motor shaft. Refer to Fig. D7 to Check mechanism Position and timing. Note : Supply and Take-up Photo Sensor is inhibited.
		01	Cassette-down	
		02	REV, REV SLOW	
		03	Loading/Unloading	
		04	PLAY/REC, STILL/PAUSE, CUE, FWD SLOW, STOP3 *1	
		05	STOP *2	
		06	FF/REW	
		07	Intermediate position	
3	Disregard service data displayed until mechanism operation is completed. Then the display should indicate "00".	00	Any display other than "00" indicates a fault in the mode switch circuit or system.	Tape Required.
4	Display only when the operating button is pressed.	Refer to Fig. D6		Tape not required.
5	Left digit only, disregard Right digit display.		8, 9, u, A, –, n, L, and no display indicate that the Capstan motor "PLAY" command received by IC6001.	Tape required. If a symbol other than those listed is displayed, a malfunction in that circuit is indicated.
	Right digit only, disregard left digit display.		1, 2, 3, 4, 5, 6, 7, indicate that the Capstan motor "CUE, FF, Forward Slow" commands received by IC6001.	
	Right digit only, disregard left digit display.		8, 9, u, A, –, n, L, and no display indicate that the Capstan motor Reverse, Rew, Reverse Slow commands received by IC6001.	
6	Left digit only, disregard Right digit display.		1, 3, 5, 7, 9, A, n and no display indicate that the cylinder motor "ON" command received by IC6001.	Tape required. If a symbol other than those listed is displayed, a malfunction in that circuit is indicated.

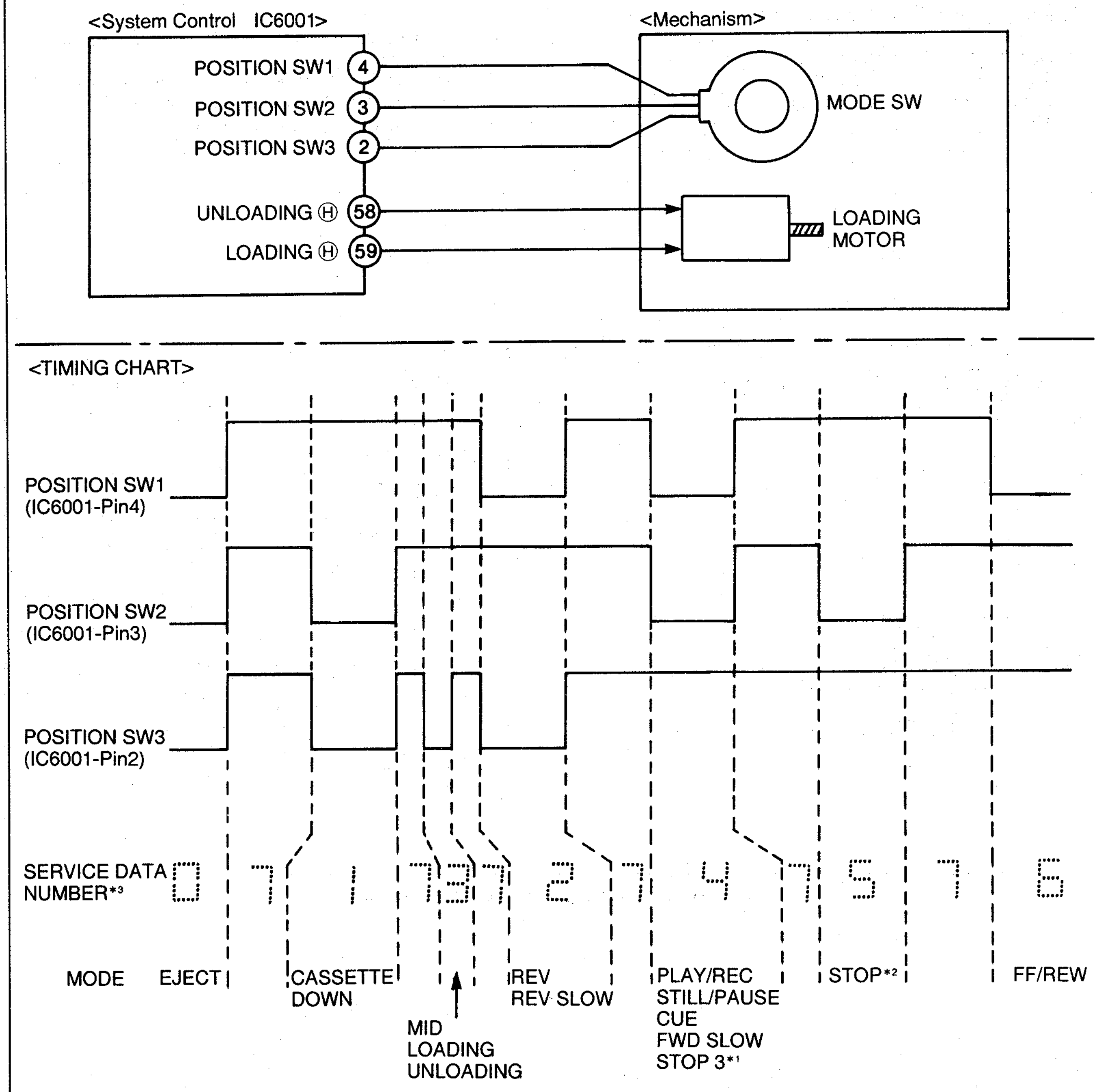
Fig. D5 Service Data Display and Indication

SERVICE DATA NUMBERS	MODE BUTTONS	SERVICE DATA NUMBERS	MODE BUTTONS
3n	OPERATE	—	RESET
01	EJECT	U4	PROG. CLEAR
09	AUDIO DUB	—	ESC
A3	INSERT	49.4U	INDEX (REMOTE CONTROLLER)
-9	PAL/MESECAM	—	TRACKING (+, -)/V-LOCK (REMOTE CONTROLLER)
—	CHECK/PROG.	U0	MARK IN
34.35	∧ ∨ (REMOTE CONTROLLER)	U1	MARK OUT
—	NEXT/SP/LP	—	TAPE SELECT (REMOTE CONTROLLER)
—	SLEEP/SHIFT	—	PLAYER
A4	TIMER REC	—	RECORDER
08	REC	—	RECORDING SP/LP (REMOTE CONTROLLER)
—	CLOCK SET	—	CANCEL (REMOTE CONTROLLER)
—	TUNER PRESET	10	SU (1) (REMOTE CONTROLLER)
80	PAUSE/STILL	11	MO (2) (REMOTE CONTROLLER)
0U	PLAY	12	TU (3) (REMOTE CONTROLLER)
00	STOP	13	WE (4) (REMOTE CONTROLLER)
06	PAUSE/STILL (REMOTE CONTROLLER)	14	TH (5) (REMOTE CONTROLLER)
03.02	FF, REW	15	FR (6) (REMOTE CONTROLLER)
U5	EDIT MENU	16	SA (7) (REMOTE CONTROLLER)
—	▲	17	SU~SA (8) (REMOTE CONTROLLER)
—	TRANSMIT (REMOTE CONTROLLER)	18	MO~SA (9) (REMOTE CONTROLLER)
0	SLOW (REMOTE CONTROLLER)	19	MO~FR (0) (REMOTE CONTROLLER)
—	▼	3A	-/-- (REMOTE CONTROLLER)
—	ENTER	—	AUDIO OUT
56	DISPLAY (REMOTE CONTROLLER)	57	OSD (REMOTE CONTROLLER)

Fig. D6 Service Data Display for Service mode 4

1-3-5. Timing Chart from Mode SW to System control IC6001

System control IC6001 senses the mechanism position though the Mode SW.
Fig. D7 shows the timing for Service Mode Number 2.


<System Control IC6001>
POSITION SW1 4
POSITION SW2 3
POSITION SW3 2
UNLOADING Ⓗ 58
LOADING Ⓗ 59
<Mechanism>
MODE SW
LOADING MOTOR
<TIMING CHART>
POSITION SW1 (IC6001-Pin4)
POSITION SW2 (IC6001-Pin3)
POSITION SW3 (IC6001-Pin2)
SERVICE DATA NUMBER*3
0 7 1 7 3 7 2 7 4 7 5 7 6
MODE
EJECT
CASSETTE DOWN
MID LOADING UNLOADING
REV REV SLOW
PLAY/REC STILL/PAUSE CUE FWD SLOW STOP 3*1
STOP*2
FF/REW

∗1 : Stop 3; The Pinch Roller is on the capstan motor shaft.

∗2 : Stop; The Pinch Roller is off the capstan motor shaft.

∗3 : Service Data Number; This is for Service Mode Number 2.

Fig. D7 Timing Chart of Mode SW

1-4. TECHNICAL INFORMATION

1-4-1. EDIT CONTROLLER FUNCTION

This VCR is equipped with programme editing.
If connected via edit cable to another VCR or a movie camera, it is possible to control such functions as tape playback and editing.

(1) Connecting this VCR with another identical one.

1) Connect the two VCRs with 5-pin edit cable.
2) Connect the AV1 socket on the playback VCR to the AV2 socket on the recording VCR.
3) Connect the AV1 socket on the recording VCR to the TV.
4) Select A2 by pressing "∧"∨" or INPUT SELECT on the recording VCR.
5) Set EDIT MODE to Passive on the playback VCR, and to RECORDER on the recording VCR.
6) Control is performed by the recording VCR.

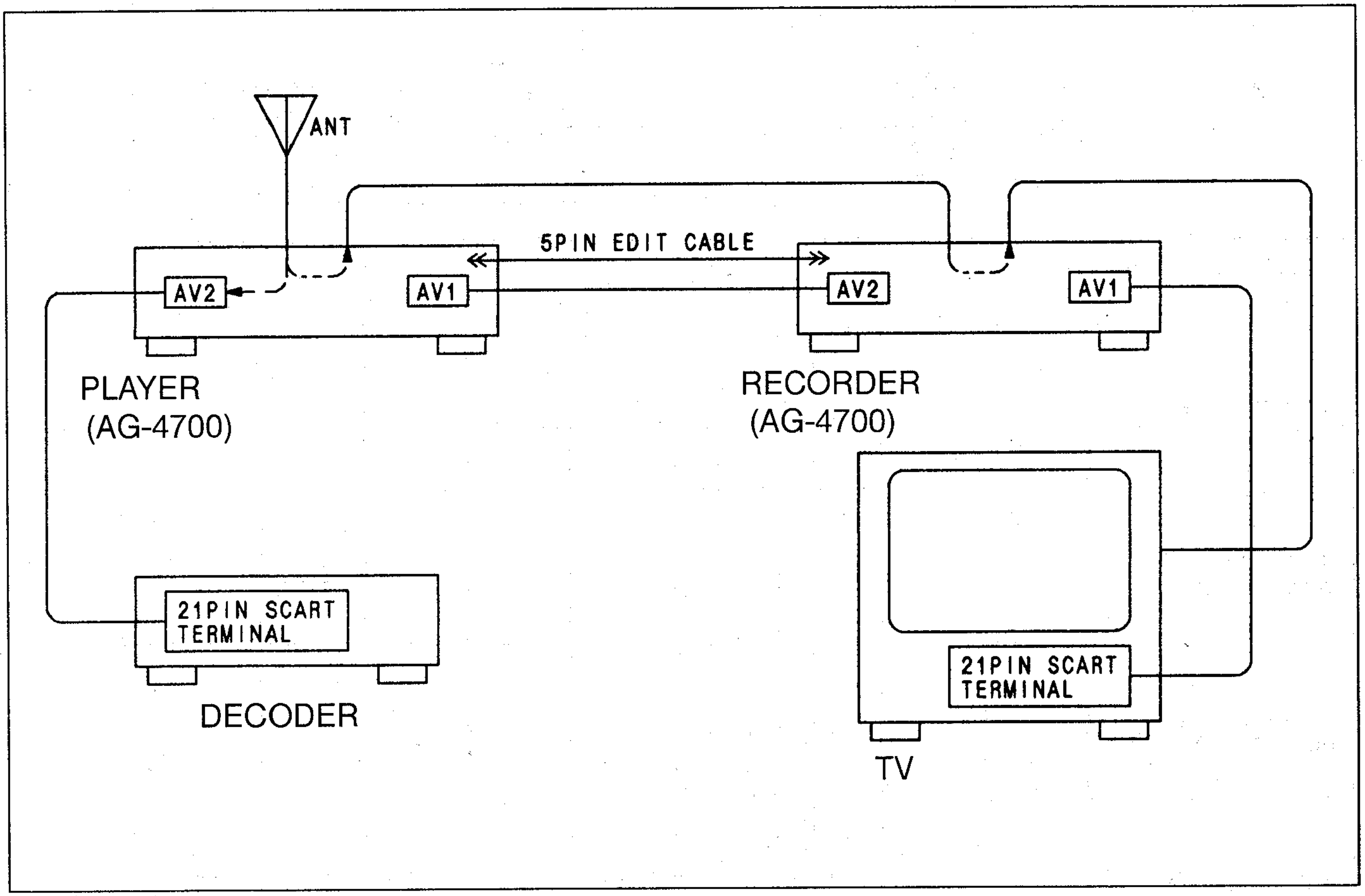

ANT
5PIN EDIT CABLE
AV2
AV1
AV2
AV1
PLAYER
(AG-4700)
RECORDER
(AG-4700)
21PIN SCART TERMINAL
DECODER
21PIN SCART TERMINAL
TV

Fig. A1 Connection of Editing Controller Function

1-4-2. AI (ARTIFICAL INTELLIGENCE) RECORDING FUNCTION

The recording and playback are adjusted to achieve optimum picture quality from tapes with varying charactristics.

(1) Detail explanation

<Playback mode>

The picture quality is varying from the different tapes as follows:

1) If the output level is low, from worn or rental cassette tapes, a soft picture is obtained by the RF equlizer and picture control on the Lumi./Chro. Pack C.B.A.
2) If the output level is medium, from normal tapes, a sharp picture is obtained from the emphasis and picture control on the Lumi./Chro. Pack C.B.A.
3) If the output level is high, from HG/S tapes, a sharp and detailed picture is obtained from the RF equlizer, emphasis picture control and noise canceller on the Lumi./Chro. Pack C.B.A.

<Recording mode>

The optimum recording level is used for all head conditions and for all types of tapes.

1) The luminance S/N is boosted 2dB.
2) Recording head wear compensation.
3) The optimum recording current is achieved in 1.5 seconds.

(2) Signal Flow

<Playback mode>

1) When the AI is turned on, the AI TRIG (H) signal is supplied to IC3403 from pin 122 of IC6001. The AI CNT (H) is supplied to the Lumi./Chro. Pack C.B.A., IC6001 and the Erase Current Generator circuit.
2) The RF C signal from the Head Amp C.B.A. is used by the IC3403 to detect the output level of the video head.
3) After receiving the RF C signal, the IC3403 supplies ENVE1 and ENVE2 to the Lumi./Chro. Pack as shown in Fig. A1.
4) The optimum picture is output from the video circuit.

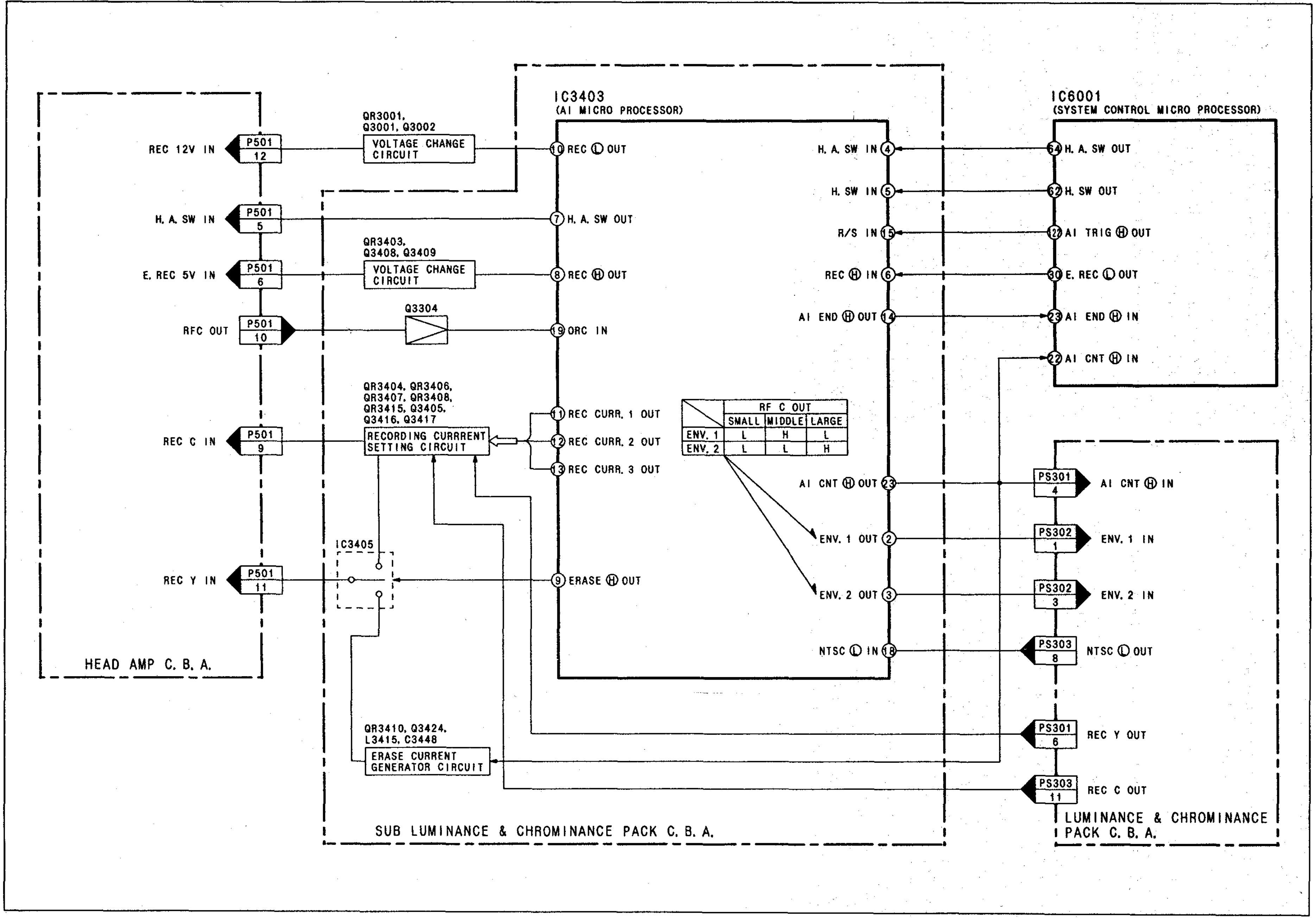
<Recording mode>

1) When the AI is turned on, the AI TRIG (H) signal is supplied to IC3403 from pin 122 of IC6001. The AI CNT (H) is supplied to the Lumi./Chro. Pack C.B.A., IC6001 and the Erase Current Generator circuit.
2) Before recording, the recording and playback operations are done in the still mode to determine the optimum recording current. The signal level detection is the same as the playback mode operation. The recording current is set by the REC CUR1, 2, 3 signals from IC3403. IC3405 is used for erasing the tape in the still mode.

<Others>

The NTSC (L) signal is used for setting the system to NTSC or PAL.

Other command signals are used to control the performance timing.


IC3403
(AI MICRO PROCESSOR)
IC6001
(SYSTEM CONTROL MICRO PROCESSOR)
REC 12V IN
P501 12
QR3001, Q3001, Q3002
VOLTAGE CHANGE CIRCUIT
10 REC Ⓛ OUT
H. A. SW IN
P501 5
7 H. A. SW OUT
E. REC 5V IN
P501 6
QR3403, Q3408, Q3409
VOLTAGE CHANGE CIRCUIT
8 REC Ⓗ OUT
RFC OUT
P501 10
Q3304
19 ORC IN
QR3404, QR3406, QR3407, QR3408, QR3415, Q3405, Q3416, Q3417
RECORDING CURRRENT SETTING CIRCUIT
REC C IN
P501 9
11 REC CURR. 1 OUT
12 REC CURR. 2 OUT
13 REC CURR. 3 OUT
IC3405
REC Y IN
P501 11
9 ERASE Ⓗ OUT
HEAD AMP C. B. A.
QR3410, Q3424, L3415, C3448
ERASE CURRENT GENERATOR CIRCUIT
SUB LUMINANCE & CHROMINANCE PACK C. B. A.
H. A. SW IN 4
H. SW IN 5
R/S IN 15
REC Ⓗ IN 6
AI END Ⓗ OUT 14
64 H. A. SW OUT
62 H. SW OUT
42 AI TRIG Ⓗ OUT
30 E. REC Ⓛ OUT
23 AI END Ⓗ IN
22 AI CNT Ⓗ IN
AI CNT Ⓗ OUT 23
ENV. 1 OUT 2
ENV. 2 OUT 3
NTSC Ⓛ IN 18
PS301 4
AI CNT Ⓗ IN
PS302 1
ENV. 1 IN
PS302 3
ENV. 2 IN
PS303 8
NTSC Ⓛ OUT
PS301 6
REC Y OUT
PS303 11
REC C OUT
LUMINANCE & CHROMINANCE PACK C. B. A.

	RF C OUT		
	SMALL	MIDDLE	LARGE
ENV. 1	L	H	L
ENV. 2	L	L	H

Fig. A2 Simplified AI Function Block Diagram

(2) Signal Flow

Fig. A3 below describes Video/Audio signal flow.
The control commands go from Recorder to Player through 5-Pin Edit Cable.

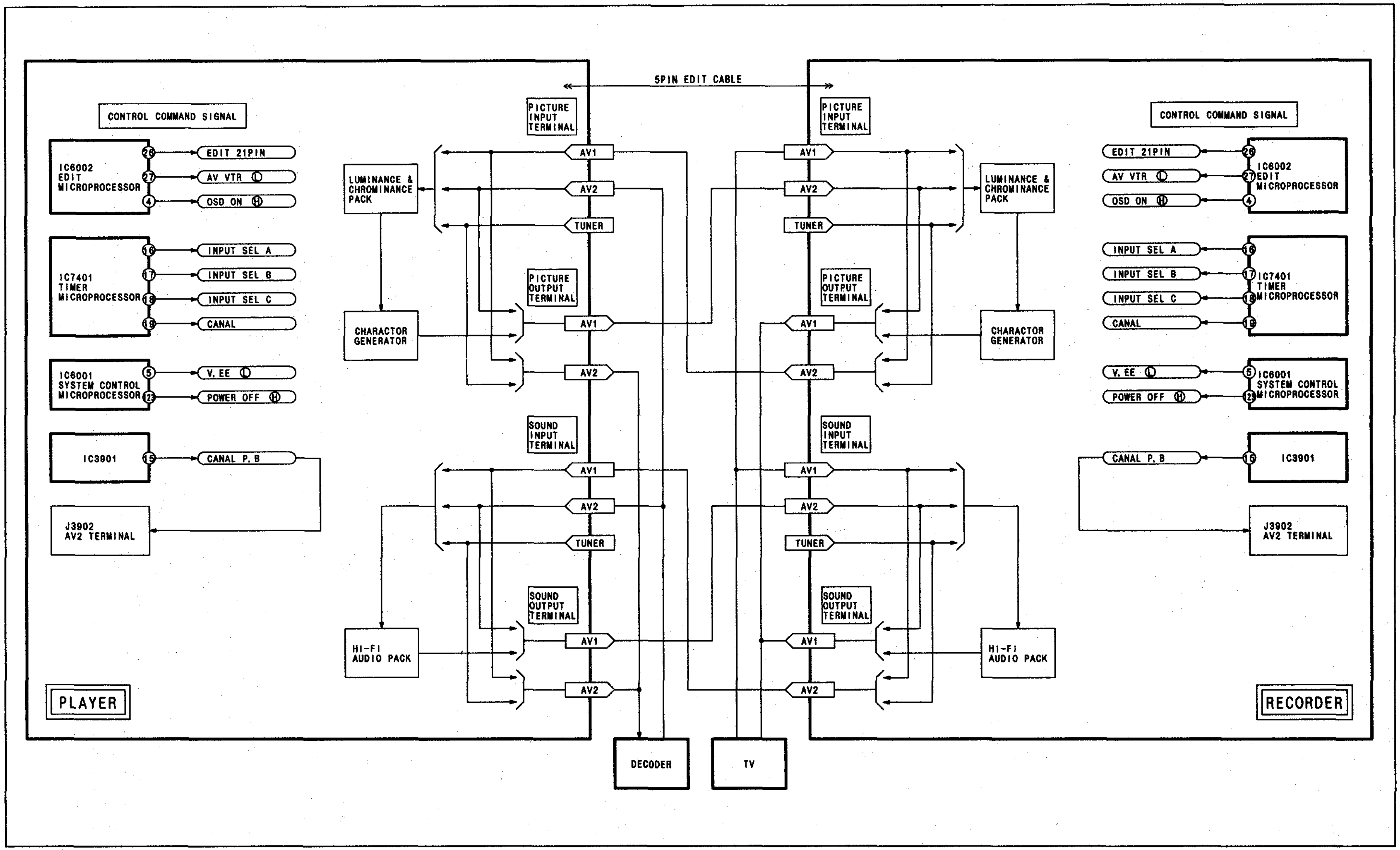

5PIN EDIT CABLE
CONTROL COMMAND SIGNAL
IC6002 EDIT MICROPROCESSOR
26
27
4
EDIT 21PIN
AV VTR Ⓛ
OSD ON Ⓗ
IC7401 TIMER MICROPROCESSOR
16
17
18
19
INPUT SEL A
INPUT SEL B
INPUT SEL C
CANAL
IC6001 SYSTEM CONTROL MICROPROCESSOR
5
23
V. EE Ⓛ
POWER OFF Ⓗ
IC3901
15
CANAL P. B
J3902 AV2 TERMINAL
LUMINANCE & CHROMINANCE PACK
CHARACTOR GENERATOR
HI-FI AUDIO PACK
PICTURE INPUT TERMINAL
PICTURE OUTPUT TERMINAL
SOUND INPUT TERMINAL
SOUND OUTPUT TERMINAL
AV1
AV2
TUNER
PLAYER
RECORDER
DECODER
TV

Fig. A3 Signal Flow

(3) Input/Output Chart for Edit IC6002 (M38024V1BK)

Pin Number	Input/Output	Port Name	Function
1	O	OSD CLK	Character Generator Control Clock
2	O	OSD DATA	Character Generator Control Data
3	O	OSD CS	Character Generator Control Chip Select (L)
4	O	OSD ON (H)	Editing OSD ON (H)
5, 6	–	----------	Not used
7	I	L CLK CNT	Serial Clock Counter Terminal
8	–	----------	Not used
9	I	SYS CLK	System Control Serial Clock
10	O	SYS OUT	System Control Serial Data
11	I	SYS IN	System Control Serial Data
12	O	DATA INH	5P Clock Data Output Inhibit (H)
13	I	CLK INPUT	Timer/5P/Serial Clock
14	O	DATA OUT	5P/Serial Data
15	I	DATA IN	5P/Serial Data
16, 17	–	----------	Not used
18	–	GND	GND
19	I	RESET (L)	Reset by Low signal
20	I	L CLK	Serial Data timing detection
21	I	5P CLK	5P Clock detection
22	I	OSC IN	7.37MHz OSC
23	O	OSC OUT	7.37MHz OSC
24	–	GND	GND
25	O	JOG LED (H)	JOG/SHUTTLE Mode ON (H)
26	O	EDIT21P	AV2 Terminal Output (H) in the Editing OSD mode
27	O	AVVTR (L)	AV2 Terminal Output (H) in the Editing OSD mode
28	O	TBC SEARCH (L)	CUE/REV Detection in TBC mode
29	O	TBC TRICK (L)	PLAY Detection in TBC mode

Pin Number	Input/Output	Port Name	Function
30	O	TBC ON (L)	TBC ON (L)
31	-	----------	Not used
32	O	EDIT (H)	Picture Edit mode (H)
33	I	TEST SIGNAL (H)	Tuner Preset Display ON (H)
34	I	OSD SECAM (H)	OSD ON (H) by SECAM System
35	O	INSIDE (H)	Internal OSD ON (H)
36	I	SEARCH MUTE OK (H)	Sound Serch Mute (H)
37	I	VITC OK (H)	VITC ON (H)
38	I	LANGUAGE2	<OSD Langage Setting> 000 = English, 001 = German 010 = French, 011 = Italian 100 = Spanish, 101 = Dutch 110 = Swedish
39	I	LANGUAGE1	
40	I	LANGUAGE0	
41 ~ 46	-	----------	Not used
47	O	BUS SELECT (B)	Timer/5P/Serial Bus Selection
48	O	BUS SELECT (A)	Timer/5P/Serial Bus Selection
49	I	CHECK (L)	Factory mode (L)
50 ~ 56	-	----------	Not used
57, 58	I	VDD	5V
59	-	GND	GND
60	I	EE DATA IN	Data from IC6007 (EEPROM)
61	O	EE DATA OUT	Data to IC6007 (EEPROM)
62	O	EE CLK	Clock to IC6007 (EEPROM)
63	O	EE CS	Chip Select to IC6007 (EEPROM)
64	I	REC/P1/P2	Recorder (H)/Player1 (M)/Player2 (L)

1-4-3. NEW SERIAL DATA TRANSMISSION

1. Serial data transmission

To exchange the data among the microprocessors, the serial data transmission is used.
Serial data transmission is used because of the relatively large amount of information that can be sent in a signal data line.
Actually two lines are required in this system, an in/out data line and a clock line.
The data in/out line between each microprocessor is timeshared.

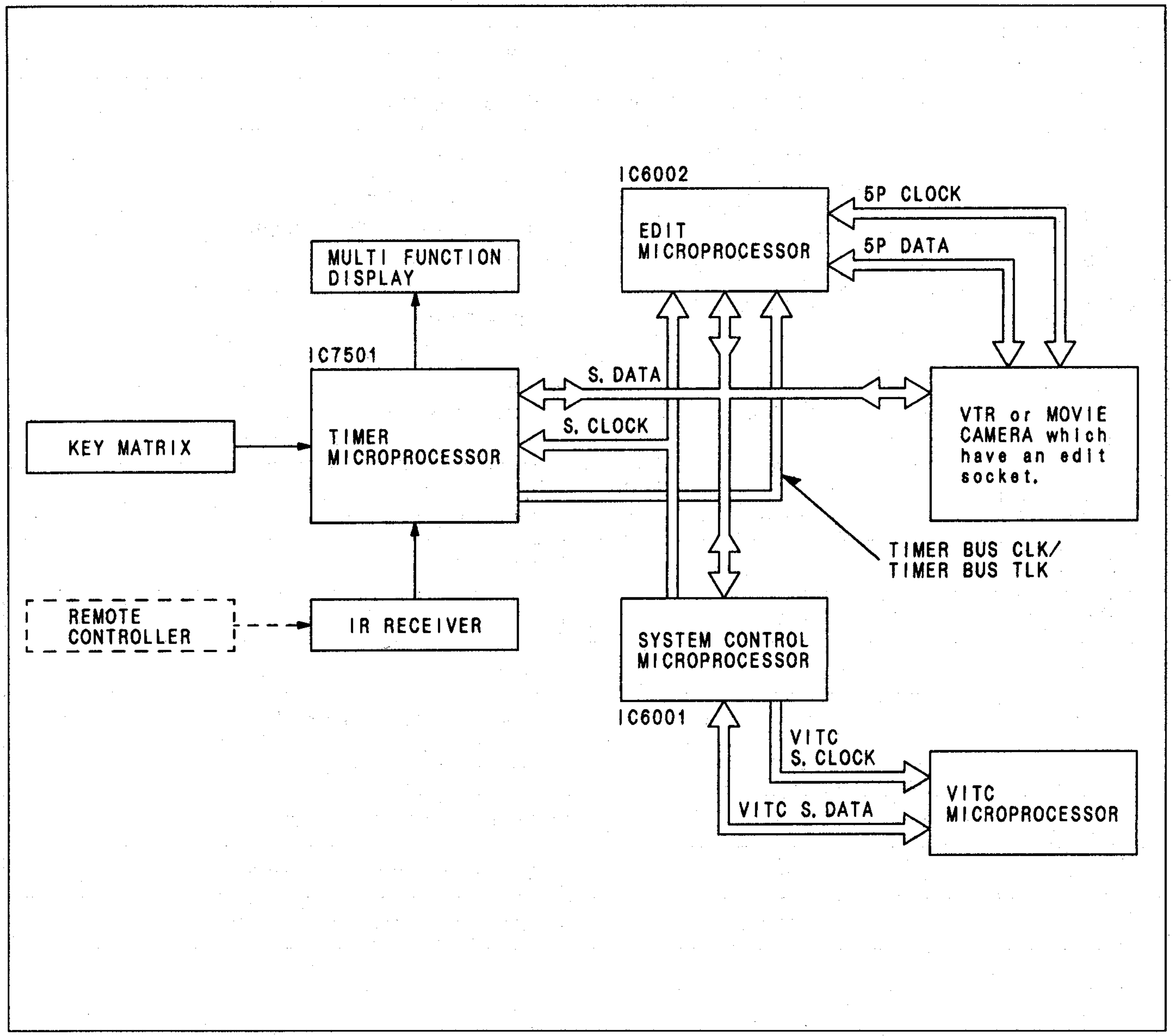

IC6002
EDIT MICROPROCESSOR
5P CLOCK
5P DATA
MULTI FUNCTION DISPLAY
IC7501
S. DATA
S. CLOCK
KEY MATRIX
TIMER MICROPROCESSOR
VTR or MOVIE CAMERA which have an edit socket.
TIMER BUS CLK/
TIMER BUS TLK
REMOTE CONTROLLER
IR RECEIVER
SYSTEM CONTROL MICROPROCESSOR
IC6001
VITC S. CLOCK
VITC S. DATA
VITC MICROPROCESSOR

Fig. A4

2. Serial clock line and data line

This serial clock signal is a reference signal which is used to control the timing of the data transmission among the microprocessors.

The previous transmission has only 13 clocknumber, the new serial data transmission has 20 clock number in it.

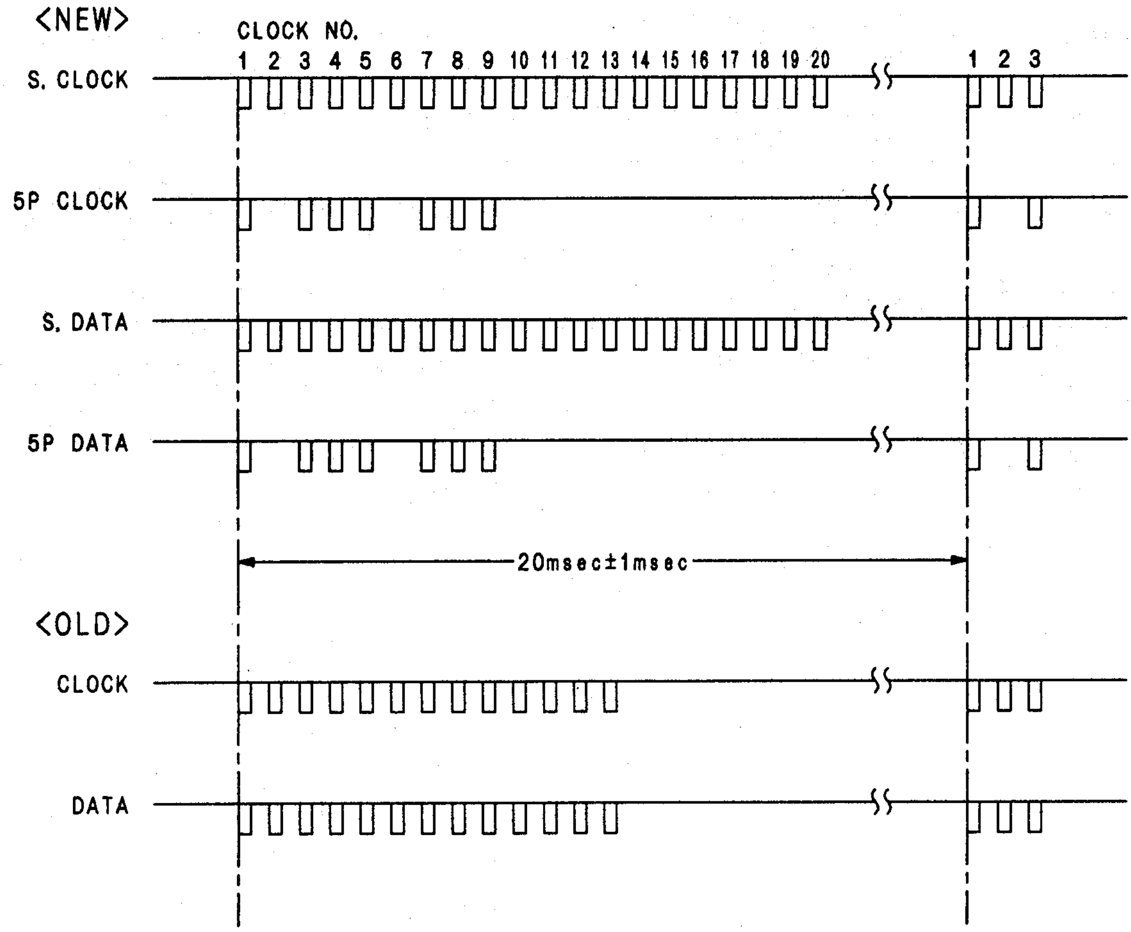
Blocks 1 to 10 of both formats will be the same.

Now the clock number from 1 to 13 is same.

The contents of new data is as shown below.

S. Clock is used for transmission of the data among the system control microprocessor, timer microprocessor and edit microprocessor.

And 5P Clock which is composed of the clock no. 1, 3, 4, 5, 7, 8, 9 works to transmit the data between the edit microprocessor and the VTR or MOVIE CAMERA which has an edit socket.



<NEW>
CLOCK NO.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
1 2 3
S. CLOCK
5P CLOCK
S. DATA
5P DATA
20msec±1msec
<OLD>
CLOCK
DATA

Fig. A5

CLOCK NO	TRANSMISSION	CONTENTS OF DATA	CLOCK NO	TRANSMISSION	CONTENTS OF DATA
1	IC7501 ← IC6001	TAPE SPEED M/R/S etc.	11	IC7501 ← IC6001	SEARCH MODE CONDITION CODE
2	IC6001 ← IC7501	WIRELESS REMOTE AND KEY CONTROL CODE	12	IC7501 ← IC6001	FRAME NUMBER CODE
3	IC6001 ← IC7501	TIMER INSTRUCTIONS CODE	13	NOT USED	———
4	IC6001 ← EDIT CONTROLLER	EDIT CONTROLLER INSTRUCTIONS CODE	14	IC6001 ← IC7501	JOG/SHUTTLE CODE
5	IC7501 ← IC6001	TRANSMISSION OF VTR MODE CODE	15	IC6001 ← IC7501	AI SWITCH CONDITION
6	IC7501 ← IC6001	DISPLAY INDICATION CODE (POWER ON/OFF etc.)	16	IC6001 ← IC7501	AUDIO CONDITION CODE
7	IC7501 ← IC6001	COUNTER/TAPE REMAINING CODE	17	IC7501 ← IC6001	PLAY BACK BILINGUAL CONDITION CODE
8	IC7501 ← IC6001	COUNTER/TAPE REMAINING CODE	18	IC6002 ← IC6001	VITC CODE
9	IC7501 ← IC6001	COUNTER/TAPE REMAINING CODE	19	IC6001 ← IC6002	EDIT MICROPROCESSOR INSTRUCTION CODE
10	IC6001 ← IC7501	TIMER CONDITION CODE	20	NOT USED	———

Fig. A6

CONTENTS

Caution for AC Mains Lead (AG-4700B) 1-21
Connections 1-22
Tuning the TV 1-23
Setting the Clock 1-24
Storing TV Broadcasts (AG-4700B) 1-25
Storing TV Broadcasts (AG-4700E) 1-26
Initial Settings 1-27
Controls and Connection Sockets (AG-4700E) 1-28
Controls and Connection Sockets (AG-4700B) 1-31
IR Remote Controller 1-34
Playback 1-35
Manual Recording 1-36
Timer Recording 1-37
Other Function 1-38
NICAM Broadcast System (AG-4700B) 1-38
Editing Preparation 1-39
Manual Editing 1-40
Program Editing 1-42

Caution for AC Mains Lead For AG-4700B

For Your safety please read the following text carefully
This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5 amp fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS 1362.
Check for the ASTA mark ◈ or the BSI mark ♡ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or Earth Symbol ⏚.

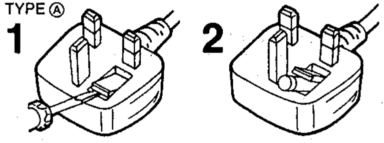
How to replace the Fuse

- There are two types of the supplied AC Mains Lead: Ⓐ and Ⓑ as shown below.

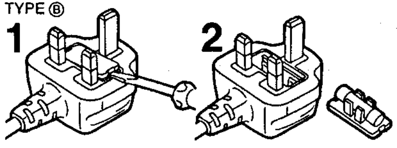
1 Open the fuse compartment with a screwdriver.

2 Replace the fuse and fuse cover.

TYPE Ⓐ



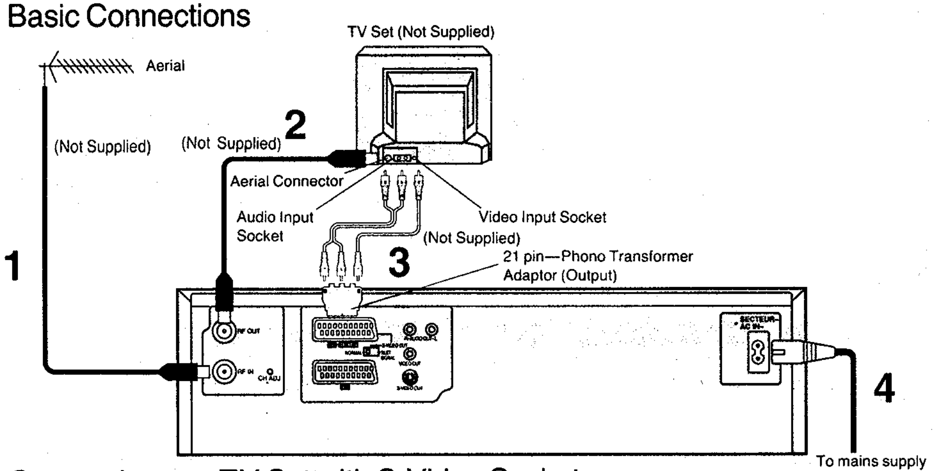
TYPE Ⓑ



Connections

This tells you how to connect with an aerial, TV, VTR, etc.

Basic Connections

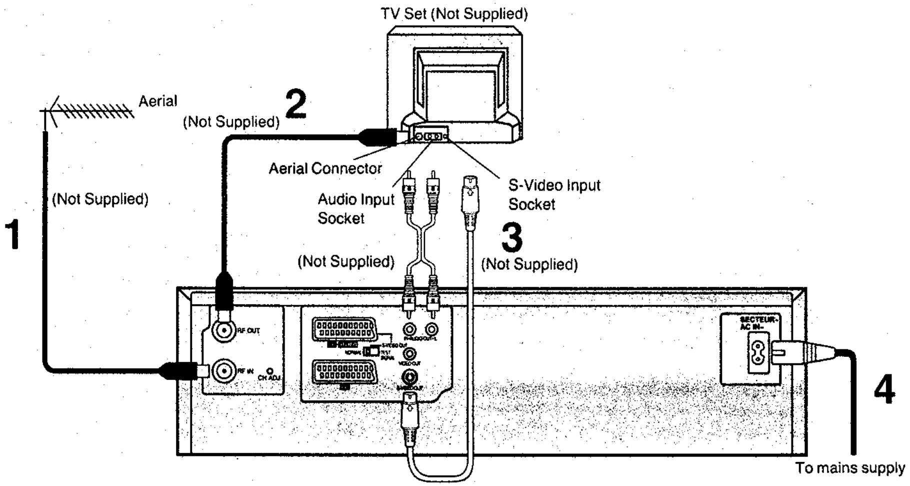

TV Set (Not Supplied)
Aerial
(Not Supplied)
(Not Supplied)
2
Aerial Connector
Audio Input Socket
Video Input Socket
(Not Supplied)
1
3
21 pin—Phono Transformer Adaptor (Output)
4
To mains supply

Connection to a TV Set with S-Video Socket

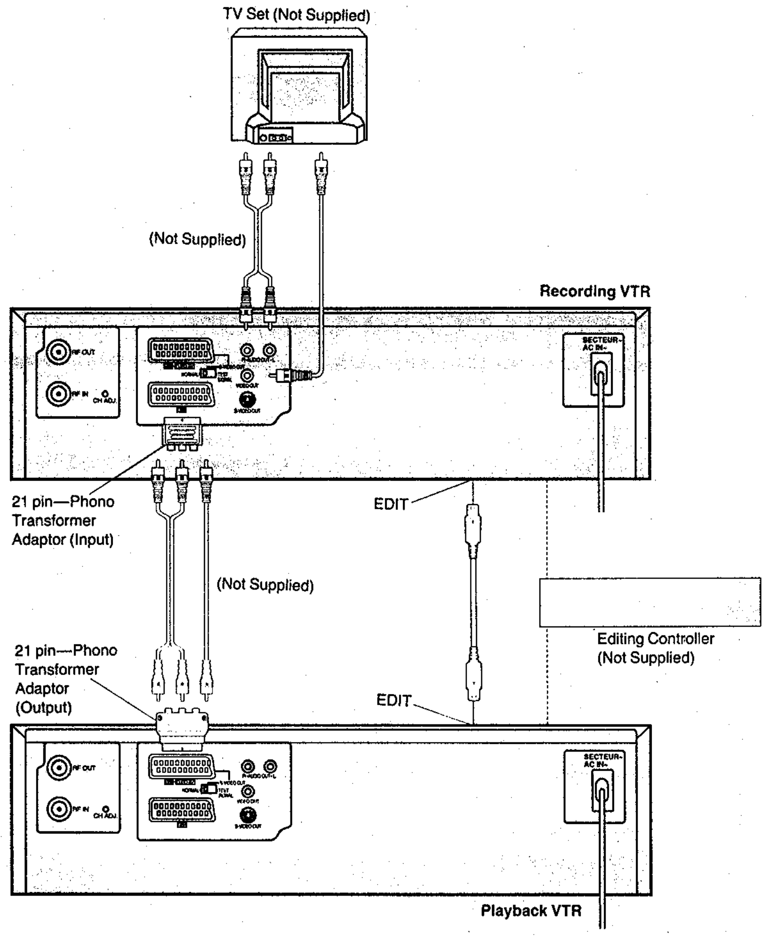
This VTR uses the S-VHS format that makes it possible to obtain high resolution and high picture quality by using the high-performance S-VHS video cassette tapes.

The conventional video sockets of VTRs output (input) a combination of the luminance signal (Y) and colour signal (C) which are recorded on the video tape. The new S (Separate)-Video Socket allows separate transmission of signals in order to obtain clearer pictures.

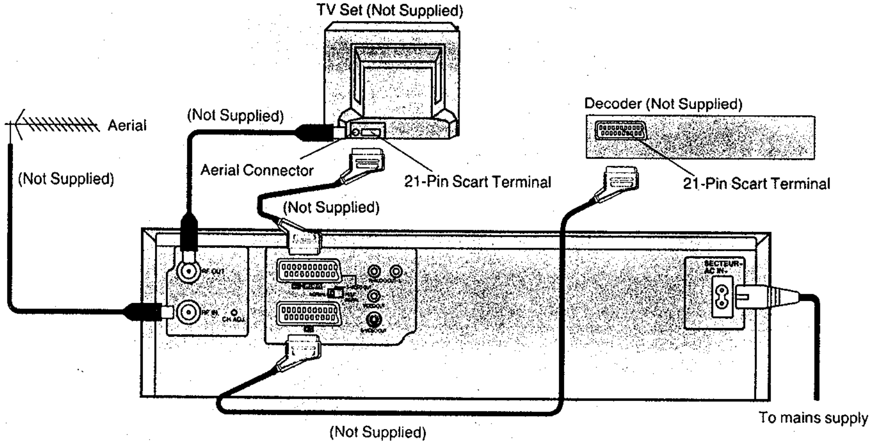
The connection with the S-Video Cable can also be used for playback of a tape that was recorded in the conventional VHS system. The "S" in the "S-Video Socket" stands for "SEPARATED Y/C" not for "S-VHS".


TV Set (Not Supplied)
Aerial
(Not Supplied)
2
Aerial Connector
(Not Supplied)
Audio Input Socket
S-Video Input Socket
1
3
(Not Supplied)
(Not Supplied)
4
To mains supply

Editing Connections


TV Set (Not Supplied)
(Not Supplied)
Recording VTR
21 pin—Phono Transformer Adaptor (Input)
EDIT
(Not Supplied)
Editing Controller (Not Supplied)
21 pin—Phono Transformer Adaptor (Output)
EDIT
Playback VTR

Connection to a Decoder **(AG-4700E only)**


TV Set (Not Supplied)
Aerial
(Not Supplied)
(Not Supplied)
Aerial Connector
21-Pin Scart Terminal
(Not Supplied)
Decoder (Not Supplied)
21-Pin Scart Terminal
To mains supply
(Not Supplied)

1—23

Note:
If the TV set is provided with an RGB-compatible connector, connect the 21-pin AV cable from the VTR to this connector. Use full-pin 21-pin AV cables for connecting the TV set and VTR and for connecting the VTR and decoder.

AV LINK

With this button the connected colour TV set can be switched from TV mode to VTR mode (vice versa) when it is connected by means of 21-pin scart cable.

This makes a variety of functions possible, such as simultaneous recording and viewing when a Pay TV decoder or a satellite receiver has been connected.

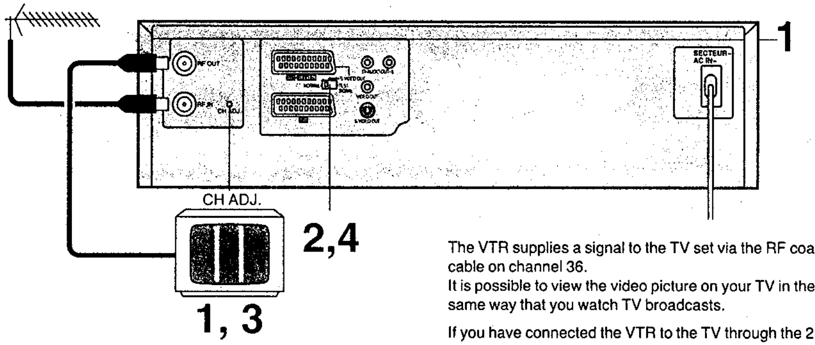
VTR mode (VTR indicator lights):
To enjoy sound and pictures from the VTR.

TV mode (VTR indicator goes off):
To watch another programme on the TV while recording on the VTR.
- Select the programme to be watched using the TV set's tuner.
- The sound and pictures of a different channel are received by the VTR.

VTR		TV set
Power On	VTR mode	AV input selected
	TV mode	Input from TV set's tuner*
Power Off	—	Input from TV set's tuner

*When the VTR is set to the TV mode and the Pay TV channel is selected, the signals will still be scrambled even when Pay TV is selected by the TV set's tuner. At a time like this, either set the VTR to the VTR mode or switch the TV set's input signals to AV input.

Tuning the TV to your VTR


1
CH ADJ.
2,4
1, 3

The VTR supplies a signal to the TV set via the RF coaxial cable on channel 36.
It is possible to view the video picture on your TV in the same way that you watch TV broadcasts.

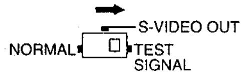
If you have connected the VTR to the TV through the 21-pin scart terminal or Audio/Video/S-Video output sockets then you do not need to follow the procedure mentioned below.

Operations

1

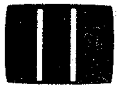
Turn on the TV and VTR.

2


S-VIDEO OUT
NORMAL
TEST
SIGNAL

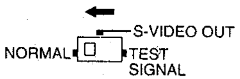
To generate a test pattern, set **NORMAL/ S-VIDEO OUT/TEST SIGNAL** to TEST SIGNAL.

3



Set the TV to an unused position which you wish to use for your video playback.

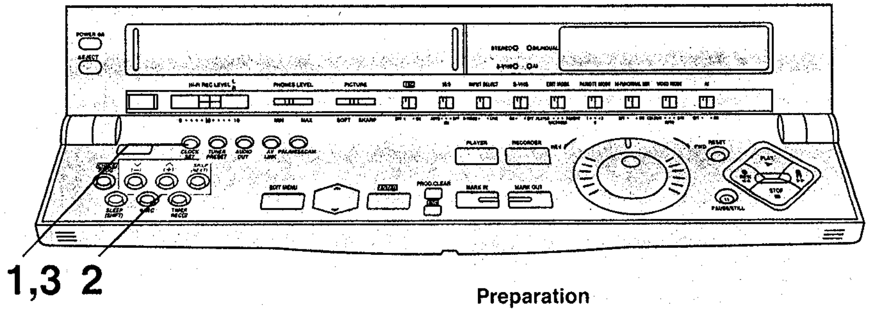
4


S-VIDEO OUT
NORMAL
TEST
SIGNAL

Set **NORMAL/S-VIDEO OUT/TEST SIGNAL** to NORMAL.

Note:
The test signal is transmitted on video channel 36. If you are encountering interference from a TV broadcast on this video channel, you may readjust to another free channel (32~40) by using the **CH ADJ.** screw which is located on the rear of the VTR. When rotating the **CH ADJ.** screw, take care not to turn it too far.
Please note that if the **CH ADJ.** screw is used then you will have to retune your TV to the test signal as in item **2** to **4** above.

Setting the Clock of the VTR



The built-in clock is used to activate the timer for automatic recording and must be set to the correct time.

The built-in digital clock employs the 24-hour system.

Preparation
Turn on the VTR.

For Example:
Date; 16th, October, 1999
Time; 20:15

Operations	Display Symbols	
1 ○ CLOCK SET		Keep **CLOCK SET** pressed for more than 2 seconds.
2 Set each item by pressing ∧ (+) or ∨ (−) and **SP/LP (NEXT)**.		
∨ (−) ○ ∧ (+) ○	99	Set **Year** "99".
	10	Set **Month** "10".
↓	16	Set **Date** "16".
SP/LP (NEXT) ○	20:00	Set **Hour** "20".
	20:15	Set **Minute** "15". •There is no need to press **SP/LP (NEXT)**.
3 ○ CLOCK SET	20:15	Press **CLOCK SET**. •The clock will start.

Note:
The clock operates for at least 60 minutes by its backup system in the event of power failure.

Time Reset Function
If the clock is less than two minutes slow or fast, it can easily be reset to the proper time.

For example:
Resetting the clock to 12:00.00

1. Keep **CLOCK SET** pressed at any time between 11:58.00 and 12:01.59 for more than 2 seconds.
2. Press **CLOCK SET** again as soon as you hear the 12:00.00 time signal.

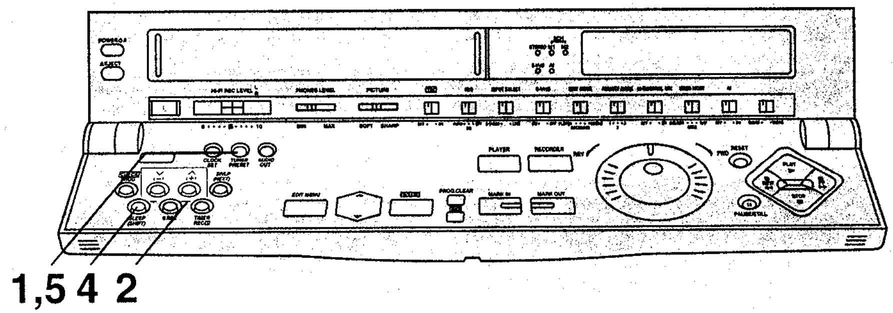
Summer Time Function (AG-4700E only)
Setting to summer time

1. Keep **CLOCK SET** pressed for more than 2 seconds.
2. Press **SLEEP (SHIFT)**.
   •The time on the clock is advanced by 1 hour.
3. Press **CLOCK SET**.

Returning from summer time to standard time

1. Keep **CLOCK SET** pressed for more than 2 seconds.
2. Press **SLEEP (SHIFT)** twice.
   •The time on the clock is set back by 1 hour.
3. Press **CLOCK SET**.

Storing TV Broadcasts into your VTR For AG-4700B

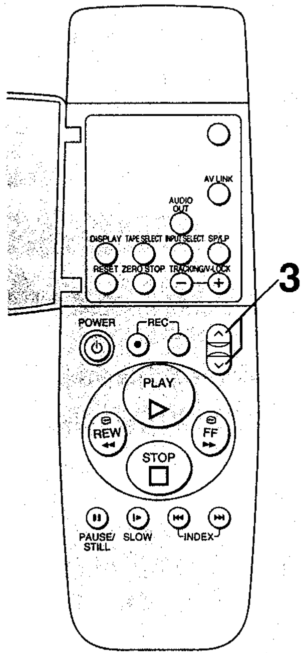


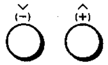
Introduction

The VTR is fitted with its own tuner (just like a normal TV set) and can be pre-set to receive up to 99 TV broadcast stations.

Preparation

- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR and select the programme position except A1, A2 and A3.
- Install the batteries in the remote controller.



Operations		Display Symbols	
1			Keep **TUNER PRESET** pressed for more than 2 seconds.
2			Search for the TV Station. •If the required station is not displayed, press + or − again.
3			Select programme position.
4			Store the broadcast station. •To store the other stations, repeat steps **2** to **4**.
5			Press **TUNER PRESET**.

TUNER PRESET
(−)
(+)
SLEEP (SHIFT)
TUNER PRESET

Tuning Procedure Using the VTR Only

Stations can be tuned in by following the steps given below.

1 Press **TUNER PRESET** for more than 2 seconds.

2 Search for the TV station by pressing ⋀ (+) or ⋁ (−), and then press **SP/LP (NEXT)**.

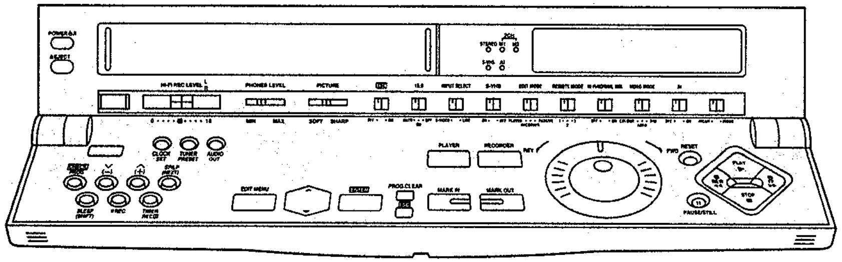
3 Select programme position by using ⋀ (+) or ⋁ (−).

4 Press **SLEEP (SHIFT)** to store the broadcast station.
- To store the other stations, press **SP/LP (NEXT)** and then repeat steps **2** to **4**.

5 Press **TUNER PRESET**.

Note:
While tuning, your VTR may lock onto several weak stations from distant transmitters. Should this occur press + or − again until a strong station is received.

Initial Settings Using On Screen Displays

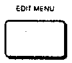


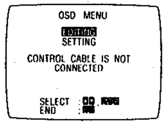
Preparation

- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR.
- Ensure that **EDIT MODE** is set to either PLAYER or RECORDER, but not PASSIVE, otherwise On Screen Displays will not work.

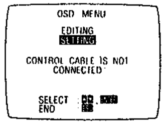
On Screen Display

1 Press **EDIT MENU**.

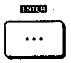


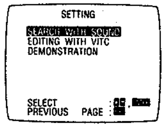

OSD MENU
EDITING
SETTING
CONTROL CABLE IS NOT CONNECTED
SELECT :
END :

2 Select **SETTING**.


OSD MENU
EDITING
SETTING
CONTROL CABLE IS NOT CONNECTED
SELECT :
END :

3 Press **ENTER**.

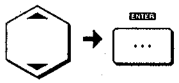


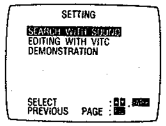

SETTING
SEARCH WITH SOUND
EDITING WITH VITC
DEMONSTRATION
SELECT :
PREVIOUS PAGE :

To select Sound Setting

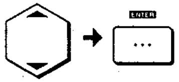
Follow steps **1** to **3** of the above procedure.

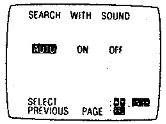
4 Select **SEARCH WITH SOUND**.




SETTING
SEARCH WITH SOUND
EDITING WITH VITC
DEMONSTRATION
SELECT :
PREVIOUS PAGE :

5 Select the desired setting.



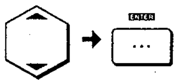

SEARCH WITH SOUND
AUTO ON OFF
SELECT :
PREVIOUS PAGE :

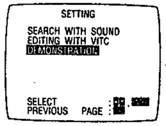
AUTO: The sound can be heard during special playback only when an editing operation is in progress.
ON: The sound can always be heard during special playback.
OFF: The sound can not be heard during special playback i.e. cue, review, slow playback.

To View a Demonstration

Follow steps **1** to **3** of the above procedure.

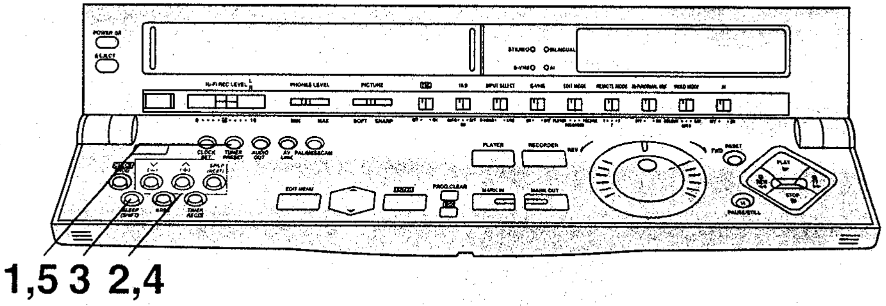
4 Select **DEMONSTRATION**.




SETTING
SEARCH WITH SOUND
EDITING WITH VITC
DEMONSTRATION
SELECT :
PREVIOUS PAGE :

- The On Screen Displays for editing are displayed one after the other at about five second intervals.

Storing TV Broadcasts into your VTR For AG-4700E

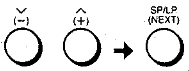
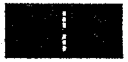
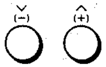


Introduction

The VTR is fitted with its own tuner (just like a normal TV set) and can be pre-set to receive up to 99 TV broadcast stations.

Preparation

- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR and Select the programme position except A1, A2 and A3.

Operations		Display Symbols	
1	TUNER PRESET		Keep **TUNER PRESET** pressed for more than 2 seconds.
2			Select the programme position, then press **SP/LP (NEXT)**.
3	SLEEP (SHIFT)		Select normal TV station or Pay TV station. • 1: To preset normal TV stations. • 2: To preset Pay TV stations.
4			Search for the required TV station. • Press **PAL/MESECAM** to select the broadcasting system for the TV station to be tuned. PAL: MESECAM indicator should not be lit. SECAM: MESECAM indicator should be lit. • Press **SP/LP (NEXT)** and repeat steps **2–4** for each programme position you want to tune to a station.
5	TUNER PRESET		Press **TUNER PRESET** twice.

Fine Tuning Procedure

1. Keep **TUNER PRESET** pressed for more than 2 seconds, and then press again.
2. Press **SP/LP (NEXT)**.
3. Press ∧ (+) or ∨ (−) to obtain the best tuning condition.
   - "AFC" Indicator disappears.
   - To return the tuning to its former state, press **SLEEP (SHIFT)**.
4. Press **TUNER PRESET**.

Blanking of Unoccupied Programme Positions

1. Keep **TUNER PRESET** pressed for more than 2 seconds.
2. Select a programme position which you do not want to tune to a TV station, by using ∧ (+) or ∨ (−).
3. Press **SLEEP (SHIFT)**. ("––" is displayed.)
   - Repeat steps **2** and **3** for another unoccupied programme positions to skip during the selection of the programme positions.
   - To cancel the blanking of a programme position, select that programme position on the VTR and then press **SLEEP (SHIFT)**.
4. Press **TUNER PRESET** twice.

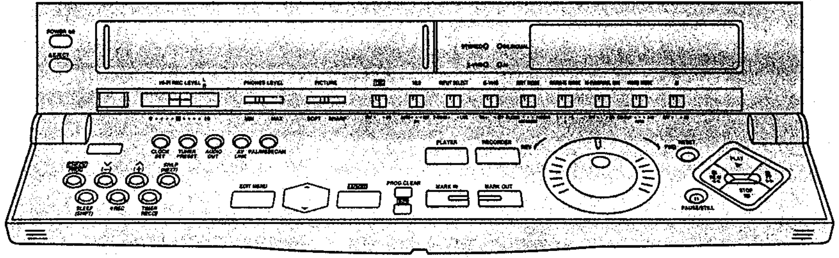
Channel Plan

Channel Indication	TV Channel	
	Germany/Italy	Other Countries
2–12	*E2–E12	E2–E12
13–20	A–H (Only Italy)	——
21–69	21–69	21–69
74–76	——	S1–S3
80–82	——	M1–M3
83–89	S4–S10	M4–M10
90–99	S11–S20	U1–U10
121–141 Hyperband	**S21–S41	S21–S41

*In Italy: H1...(11), H2...(12)
**Only for 8 MHz channel raster

Note:
This VTR does not support NICAM broadcast audio multiplexing.

Initial Settings Using On Screen Displays



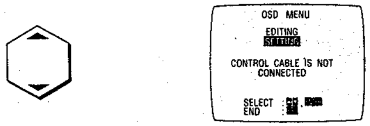
Preparation

- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR.

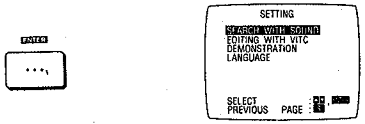
1 Press **EDIT MENU**.

2 Select **SETTING**.

On Screen Display


OSD MENU
EDITING
SETTING
CONTROL CABLE IS NOT CONNECTED
SELECT
END

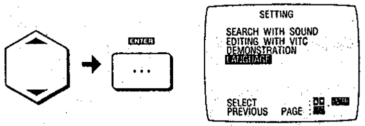
3 Press **ENTER**.


ENTER
SETTING
SEARCH WITH SOUND
EDITING WITH VITC
DEMONSTRATION
LANGUAGE
SELECT
PREVIOUS PAGE

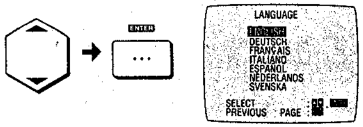
To select the Desired Language

Select one of the seven languages displayed: English, German, French, Italian, Spanish, Dutch and Swedish.
Follow steps **1** to **3** of the above procedure.

4 Select **LANGUAGE**.


ENTER
SETTING
SEARCH WITH SOUND
EDITING WITH VITC
DEMONSTRATION
LANGUAGE
SELECT
PREVIOUS PAGE

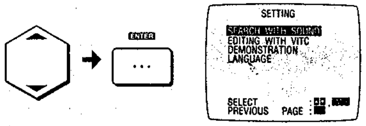
5 Select the desired language.


ENTER
LANGUAGE
ENGLISH
DEUTSCH
FRANÇAIS
ITALIANO
ESPAÑOL
NEDERLANDS
SVENSKA
SELECT
PREVIOUS PAGE

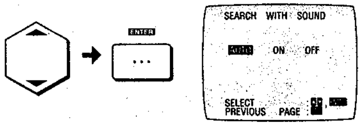
To select Sound Setting

Follow steps **1** to **3** of the above procedure.

4 Select **SEARCH WITH SOUND**.


ENTER
SETTING
SEARCH WITH SOUND
EDITING WITH VITC
DEMONSTRATION
LANGUAGE
SELECT
PREVIOUS PAGE

5 Select the desired setting.

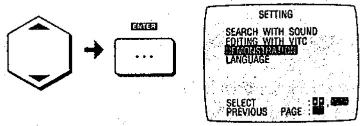

ENTER
SEARCH WITH SOUND
AUTO
ON
OFF
SELECT
PREVIOUS PAGE

AUTO: The sound can be heard during special playback only when an editing operation is in progress.
ON: The sound can be always heard during special playback.
OFF: The sound can not be heard during special playback.

To View a Demonstration

Follow steps **1** to **3** of the above procedure.

4 Select **DEMONSTRATION**.


ENTER
SETTING
SEARCH WITH SOUND
EDITING WITH VITC
DEMONSTRATION
LANGUAGE
SELECT
PREVIOUS PAGE

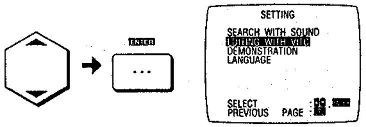
- The On Screen Displays for editing are displayed one after the other at about five second intervals.

VITC (Vertical Interval Time Code) Function

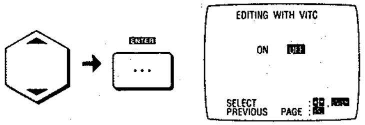
As an address (individual number) is recorded for each frame, it is possible to find the accurate position of any desired scene or picture on a tape by checking the address during playback. This address is called "Time Code".
Since the VITC signals (Vertical Interval Time Code) are recorded together with the picture signals, they will not be cancelled even when the video cassette is taken out from the VTR or the VTR is switched off. This makes it possible to check the precise position of any desired picture at any time.

Follow steps **1** to **3** of the above procedure.

4 Select **EDITING WITH VITC**.


ENTER
SETTING
SEARCH WITH SOUND
EDITING WITH VITC
DEMONSTRATION
LANGUAGE
SELECT
PREVIOUS PAGE

5 Select the desired setting.


ENTER
EDITING WITH VITC
ON
OFF
SELECT
PREVIOUS PAGE

ON: For reading the VITC signals during playback and writing them during recording.
The time code is indicated on the counter in increments of hours, minutes and seconds. During programme editing, it appears on the screen in increments of hours, minutes, seconds and frames (25 frames per second).
OFF: The normal counter is displayed.

Reading the VITC signals

"–:––.––" appears on the counter when the cassette is inserted. When playback is started, the VITC signals are read and the time code is displayed.

- When VITC signals have not been written on the tape, the time code is not displayed.
- When playing back the tape with VITC signals recorded on another VTR, set **PICTURE** to the center position or **AI** to ON. Otherwise, VITC signals may not be read.

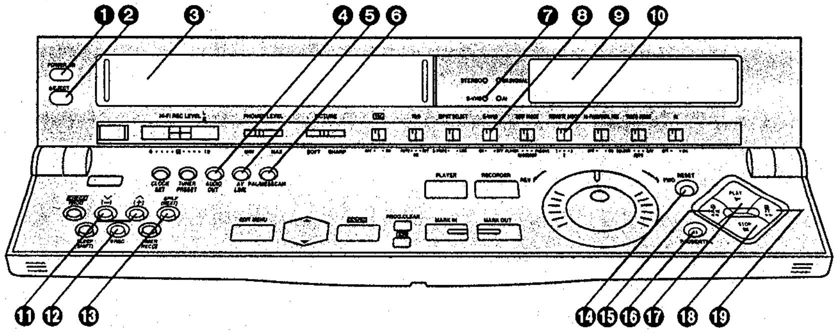
Writing the VITC signals

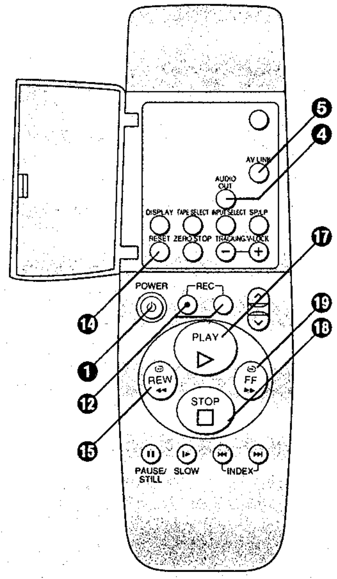
"–:––.––" appears on the counter when the cassette is inserted. When recording is started, the VITC signals are written starting at 0h00m00s00f.
If recording is started after the tape has been played back and the VITC signals read, the VITC signals will be written following on from the time code which is displayed on the counter at that time.

Notes:

- To use the VITC function to edit, be sure to first turn on the VITC function with the procedure described above, then begin editing after cancelling all editing programmes used last time.
- When tracking is out of adjustment, the VITC signals may not be properly read.
- The counter cannot be reset when the VITC function is on. This is because the VITC signals are recorded on the tape.
- Unplugging the AC mains lead returns the VITC setting to OFF.
- Editing using the VITC function cannot be performed with movie cameras which have edit sockets (5-pin).
- The editing accuracy when using the VITC function is approximately ±3 frames. This accuracy decreases to approximately ±8 frames when record and pause are repeated.
- To make optimal use of the advantages offered by the VITC function during editing, this VTR should be connected to another AG-4700 also equipped with the VITC function.
  When this VTR is to be connected to another unit which is not equipped with the VITC function, the editing precision will be increased if the AG-4700 is used as the playback VTR.
- There are two types of frame display: one represents what is read from the VITC signal and the other indicates what is read from the linear counter. This means that when a conventional VTR or a movie camera with no VITC function is used as the player, the frame count on the player will also be displayed when the VITC function is activated on the AG-4700. However, if this frame count is the one which has been read from the linear counter, the editing accuracy will be less than that when a unit with VITC function is used.
- Since this unit does not come with a function for reading the VITC signals of the player, a model equipped with a VITC reading function must be used as the player in order to improve the editing accuracy.

Controls and Connection Sockets For AG-4700E





Basic Controls

❶ **POWER ⏻/I**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still connected to the mains.

❷ **EJECT**
To eject a video cassette.

❸ **Cassette Compartment**
Insert a video cassette here.

❹ **AUDIO OUT**
To select the desired sound mode.
At the every push of this button, the audio output mode changes as follows.

→Stereo→Left→Right→Normal audio track—

The Left and Right Indicators show which sound mode is selected in the following way.

Stereo: Both the Left and Right Indicators are lit.
Left: The Left Indicator is lit.
Right: The Right Indicator is lit.
Normal: Both the Left and Right Indicators are not lit.

❺ **AV LINK**
To select the VTR mode or TV mode for AV LINK.

❻ **PAL/MESECAM**
Set according to the colour TV system used during recording and playback.
When the MESECAM Indicator is lit, the MESECAM system is selected.

❼ **S-VHS Indicator**
Lights up when the S-VHS switch is set to ON.

❽ **S-VHS**
When recording on an S-VHS cassette tape, select the desired recording format with this switch.
ON: The recording will be made in the S-VHS format.
- The S-VHS indicator lights up.

OFF: The recording will be made in the VHS format.
- The S-VHS indicator does not light up.

(It is possible to make a recording on an S-VHS cassette tape in the VHS format, for example, in order to play back the tape on another VHS VTR.)

- When using VHS cassettes, the recording is made in the VHS format irrespective of the position to which this switch is set.
- For playback, it is not necessary to operate this switch.
- When a tape which was recorded in the S-VHS format is played back on a conventional VHS VTR, it is not possible to obtain playback picture.

❾ **Display**

❿ **REMOTE MODE**
VTR1: Set to this position.
VTR2: No function.
VTR3: No function.

⓫ ∨(−) ∧(+)
To select the required programme position (TV station).
To set the clock and timer recording.

⓬ **REC**
To start a recording.

⓭ **SP/LP (NEXT)**
To select the tape speed required for recording.
SP gives the best picture quality.
LP gives the longest recording time.
To proceed to the next item during setting procedure.

⓮ **RESET**
To reset the tape counter (elapsed time) to "0:00.00".
- The tape counter is automatically reset to "0:00.00" when a video cassette is inserted.

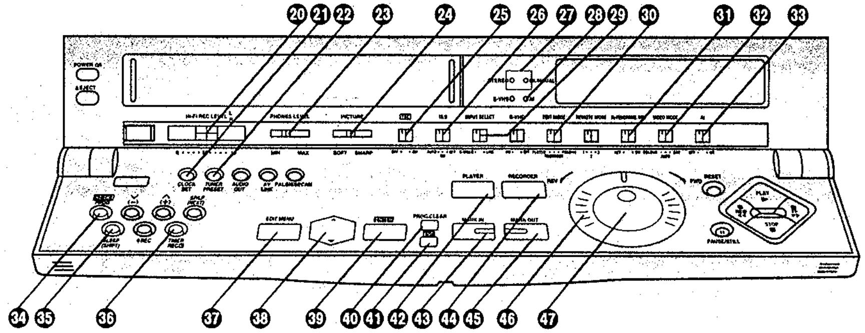
⓯ **REW (REWIND)**
In the stop mode: To rewind the tape.
In the playback mode: To search backward.
In the rewind mode: To obtain high speed picture.
"◁◁" is lit.

⓰ **PAUSE/STILL**
In the stop mode: Still picture (Jog/Shuttle mode)
During playback: Still picture (Jog/Shuttle mode)
During recording: To interrupt recording

⓱ **PLAY**
To start playback. "▷" is lit.

⓲ **STOP**
To stop any playback or recording.

⓳ **FF (FAST FORWARD)**
In the stop mode: To fast forward the tape.
In the playback mode: To search forward.
In the fast forward mode: To obtain high speed picture.
"▷▷" is lit.



Advanced Controls

⑳ **Hi-Fi REC LEVEL**
To adjust the recording level to peak at +4 dB on the recording level indicator.

㉑ **CLOCK SET**
To set the time.

㉒ **TUNER PRESET**
To initiate TV station settings for the tuner.

㉓ **PHONES LEVEL**
For adjusting the volume level of connected stereo headphones.

㉔ **PICTURE**
To make picture sharper (SHARP) or softer (SOFT).

㉕ **TBC**
When the tape in the cassette is loose or damaged, or when the tape movement is unstable during recording or playback, the playback picture may shake from side to side and the picture may become distorted. In this case, activate the Time Base Corrector by setting the TBC Switch to ON, and the picture will become stable and the shaking will be minimized.

- For normal use, set the TBC Switch to OFF.
- During playback of some pre-recorded tapes, the tape may shake vertically. In such a case, set the TBC Switch to OFF.
- This function only works during normal playback in the PAL system.

㉖ **16:9**
AUTO: For automatically identifying the pictures as 16:9 pictures or 4:3 pictures during recording and playback and showing them on the wide TV screen.
- Normally set at this position.

ON: For recording and playback in such a way that the pictures expanded to 16:9 are shown on the wide TV screen at all time.
OFF: For recording and playback in such a way that 4:3 pictures are shown on the wide or 4:3 TV screen at all times.

㉗ **STEREO and BILINGUAL Indicators**
When receiving a TV programme, the type of sound system in which it is broadcast is automatically indicated.

㉘ **AI Indicator**
Lights up when the AI function is on.

㉙ **INPUT SELECT**
When Recording via the AV3 sockets on the front panel, select A3 by pressing ∧ ∨ and set this switch to S-VIDEO or LINE.
S-VIDEO: Through the S-VIDEO IN and AUDIO IN sockets
LINE: Through the VIDEO IN and AUDIO IN sockets

㉚ **EDIT MODE**
PLAYER: When this VTR is used as the playback VTR during editing operations.
RECORDER: When this VTR is used as the recording VTR during editing operations.
- Normally set at this position.

PASSIVE: When operating this VTR using another VTR or an editing controller.
- The picture quality best suited for editing is selected.
- When setting at this position, operation will not be possible and the On Screen Display will not appear.

㉛ **Hi-Fi/NORMAL MIX**
OFF: Normally set at this position to reproduce the better sound available from the Hi-Fi track.
ON: Both sound tracks (the Hi-Fi sound track and the normal sound track) are played back mixed together. Use this setting when playing back a cassette tape which has been insert edited or audio dubbed.

㉜ **VIDEO MODE**
COLOUR: When performing recording and playback in colour.
AUTO: The VTR automatically distinguishes between colour and black-and-white during recording and playback.
B/W: When performing recording and playback in black-and-white.

㉝ **AI**
ON: Using the AI function, recording and playback are performed in the state which achieves optimum picture quality in light of characteristics of a tape.
- The picture sharpness cannot be adjusted in this setting.

OFF: Turns off the AI function.

㉞ **CHECK/PROG**
To select a timer programme number.
"1, 2, 3... or 8" is lit.
To display details of preset timer recording.

㉟ **SLEEP (SHIFT)**
To set the time to turn off the VTR automatically.
To blank unoccupied programme position.

㊱ **TIMER REC**
To turn the timer recording function on and off.
◷ is lit or not lit.
Once Operating timer recording function, the normal VTR operation is not possible unless this button is set to off.

㊲ **EDIT MENU**
To perform editing operations.

㊳ **▲▼**
To make selections from On Screen Display.

㊴ **ENTER**
To make selections from On Screen Display.

㊵ **PROG. CLEAR**
To cancel an editing programme.

㊶ **ESC**
To return to the previous page on the screen.
To stop editing.

㊷ **PLAYER**
To operate the playback VTR.

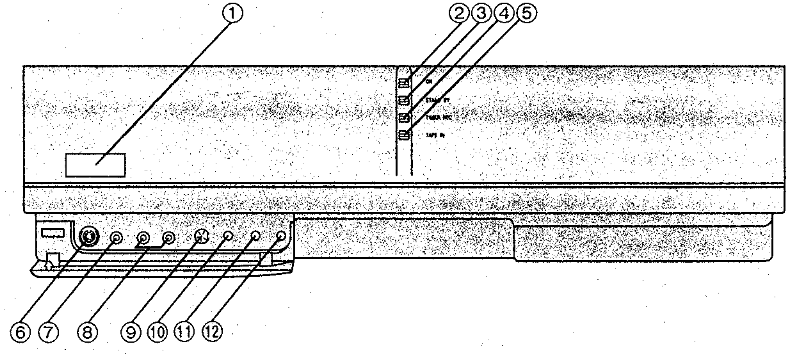
㊸ **MARK IN**
To set the edit start point.

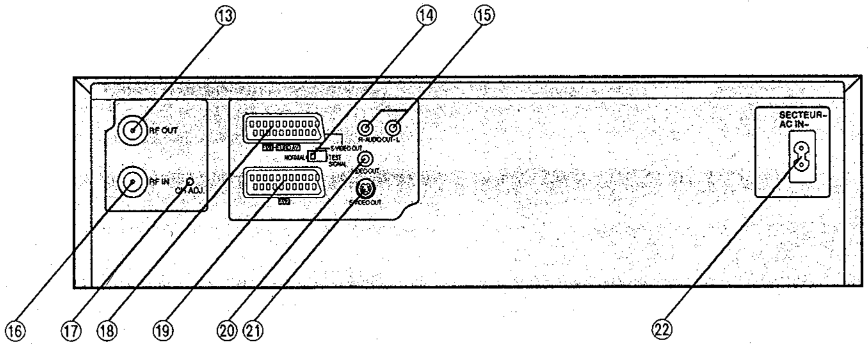
㊹ **RECORDER**
To operate the recording VTR.

㊺ **MARK OUT**
To set the edit end point.

㊻ **Shuttle Ring**
To adjust playback speed backward or forward.

㊼ **Jog Dial**
To locate any desired frame with utmost precision.





① **Infrared Remote Control Receiver Window**

② **ON Indicator**
Lights up when the VTR is turned on.

③ **STAND BY Indicator**
Lights up when the AC mains lead is connected and the VTR is turned off.

④ **TIMER REC Indicator**
Lights up when the timer recording function is on.

⑤ **TAPE IN Indicator**
Lights up when a cassette is inserted.

⑥ **S-VIDEO IN (AV3)**
To connect the S-Video cable to a movie camera or to another VTR that has a S-Video output socket.

⑦ **VIDEO IN (AV3)**
To connect the video cable to a movie camera or to another VTR.

⑧ **AUDIO IN (AV3)**
To connect the audio cable to a movie camera or to another VTR.

⑨ **EDIT (5 pin)**
To connect another VTR equipped with an edit socket or an editing controller.

⑩ **SYNC. EDIT**
To connect a movie camera or another VTR equipped with synchronized editing capability.

⑪ **MIC**
To connect a microphone for recording. Once connected, this socket has priority.

⑫ **PHONES**
To connect stereo headphones.

⑬ **RF OUT**
To connect to the aerial terminal on a TV set.

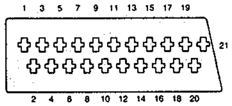
⑭ **NORMAL/S-VIDEO OUT/TEST SIGNAL**
NORMAL: Normally set to this position.
S-VIDEO OUT (AV1):
Set to this position when connecting the VTR to a TV set equipped with 21-pin Euro-AV Connector with pins for separate Y/C signal input.
TEST SIGNAL:
Set to this position when tuning the TV into the VTR.
The test signal is transmitted on channel 36 and AV1.

⑮ **AUDIO OUT**
To connect the audio cable to a TV or another VTR.

⑯ **RF IN**
To connect to the external aerial.

⑰ **CH ADJ.**
To adjust the RF transmitting channel 32~40.

⑱ **AV1**
This 21-pin scart terminal carries input and output signals for both picture and sound. TV sets equipped with a similar socket can be connected here.
This is also called Scart
Peritel
Euro Connector
Euro AV



	NORMAL (AV1/AV2)		S-VIDEO (AV1)
1	AUDIO OUTPUT CH2 (R)	1	AUDIO OUTPUT CH2 (R)
2	AUDIO INPUT CH2 (R)	2	AUDIO INPUT CH2 (R)
3	AUDIO OUTPUT CH1 (L)	3	AUDIO OUTPUT CH1 (L)
4	AUDIO GND	4	AUDIO GND
5	BLUE GND	5	No connection
6	AUDIO INPUT CH1 (L)	6	AUDIO INPUT CH1 (L)
7	BLUE	7	No connection
8	SWITCHING VOLTAGE	8	SWITCHING VOLTAGE
9	GREEN GND	9	No connection
10	No connection	10	No connection
11	GREEN	11	No connection
12	No connection	12	No connection
13	RED GND	13	No connection
14	BLANKING GND	14	No connection
15	RED	15	C OUT
16	BLANKING	16	No connection
17	VIDEO OUTPUT GND	17	VIDEO OUTPUT GND
18	VIDEO INPUT GND	18	No connection
19	VIDEO OUTPUT	19	Y OUT
20	VIDEO INPUT	20	VIDEO INPUT
21	GND	21	GND

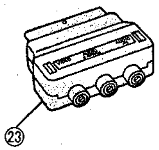
Caution: RGB reservation for only E/E operation when connecting the Pay TV decoder

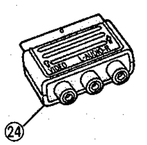
⑲ **AV2**
To connect to a decoder or another VTR.
•Only used as the input socket.

⑳ **VIDEO OUT**
To connect the video cable to a TV or another VTR.

㉑ **S-VIDEO OUT**
To connect the S-Video cable to a TV or another VTR that has a S-Video input socket.

㉒ **AC IN~**
To connect to the main power supply.





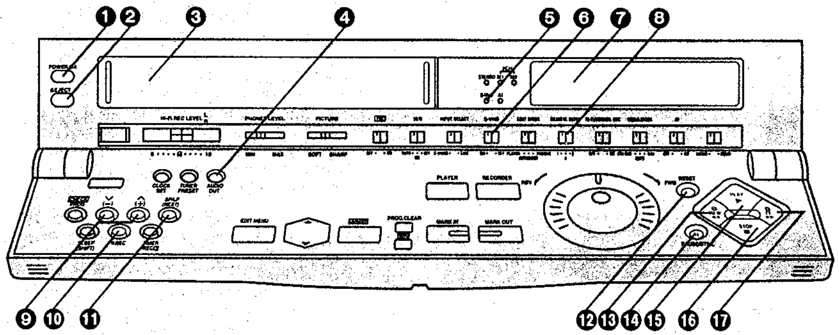
㉓ **21 pin—Phono Transformer Adaptor (Output)**
Inserting this adaptor into AV1 allows it to be used as the Phono Audio/Video output socket.

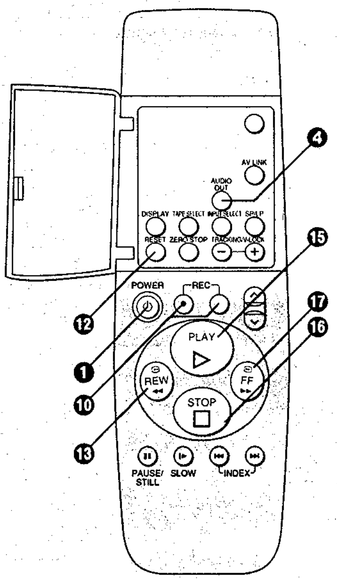
VIDEO:	To connect the video cable to a TV or another VTR.
AUDIO (L/MONO, R):	To connect the audio cable to a TV or another VTR.

㉔ **21 pin—Phono Transformer Adaptor (Input)**
Inserting this adaptor into AV1 or AV2 allows it to be used as the Phono Audio/Video input socket.

VIDEO:	To connect the video cable to a movie camera or another VTR.
AUDIO (L/R):	To connect the audio cable to a movie camera or another VTR.

Controls and Connection Sockets For AG-4700B





Basic Controls

① **POWER ⏻/I**
Press to switch the unit on from standby mode or vice versa. In standby mode, the unit is still connected to the mains.

② **EJECT**
To eject a video cassette.

③ **Cassette Compartment**
Insert a video cassette here.

④ **AUDIO OUT**
To select the desired sound output mode.
At every push of this button, the sound output mode changes as follows.

→Stereo→Left→Right→Normal audio track

The Left and Right Indicators show which sound mode is selected in the following way.

Stereo: Both the Left and Right Indicators are lit.
Left: The Left Indicator is lit.
Right: The Right Indicator is lit.
Normal: Both the Left and Right Indicators are not lit.

⑤ **S-VHS Indicator**
Lights up when the S-VHS switch is set to ON.

⑥ **S-VHS**
When recording on an S-VHS cassette tape, select the desired recording format with this switch.
ON: The recording will be made in the S-VHS format.
- The S-VHS indicator lights up.

OFF: The recording will be made in the VHS format.
- The S-VHS indicator does not light up.

(It is possible to make a recording on an S-VHS cassette tape in the VHS format, for example, in order to play back the tape on another VHS VTR.)

- When using VHS cassettes, the recording is made in the VHS format irrespective of the position to which this switch is set.
- For playback, it is not necessary to operate this switch.
- When a tape which was recorded in the S-VHS format is played back on a conventional VHS VTR, it is not possible to obtain playback picture.

⑦ **Display**

⑧ **REMOTE MODE**
VTR1: Set to this position.
VTR2: No function.
VTR3: No function.

⑨ **∨ (−) ∧ (+)**
To select the required programme position (TV station).
To set the clock and timer recording.

⑩ **REC**
To start a recording.

⑪ **SP/LP (NEXT)**
To select the tape speed required for recording.
SP gives the best picture quality.
LP gives the longest recording time.
To proceed to the next item during setting procedure.

⑫ **RESET**
To reset the tape counter (elapsed time) to "0:00.00".
- The tape counter is automatically reset to "0:00.00" when a video cassette is inserted.

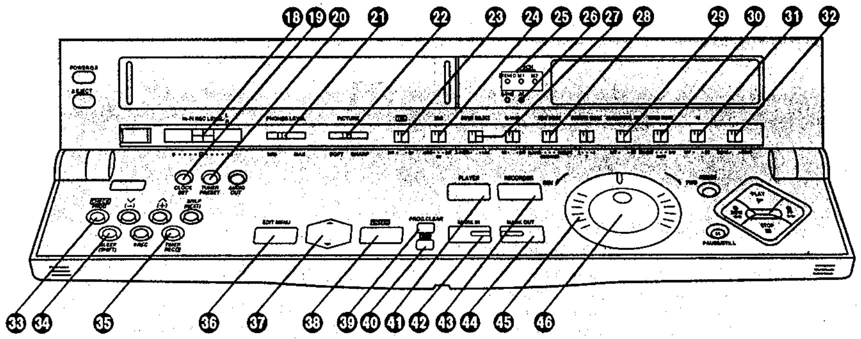
⑬ **REW (REWIND)**
In the stop mode: To rewind the tape.
In the playback mode: To search backward.
In the rewind mode: To obtain high speed picture. "◁◁" is lit.

⑭ **PAUSE/STILL**
In the stop mode: Still picture (Jog/Shuttle mode)
During playback: Still picture (Jog/Shuttle mode)
During recording: To interrupt recording

⑮ **PLAY**
To start playback. "▷" is lit.

⑯ **STOP**
To stop any playback or recording.

⑰ **FF (FAST FORWARD)**
In the stop mode: To fast forward the tape.
In the playback mode: To search forward.
In the fast forward mode: To obtain high speed picture. "▷▷" is lit.



Advanced Controls

⑱ **Hi-Fi REC LEVEL**
To adjust the recording level to peak at +4 dB on the recording level indicator.

⑲ **CLOCK SET**
To set the time.

⑳ **TUNER PRESET**
To initiate TV station settings for the tuner.

㉑ **PHONES LEVEL**
For adjusting the volume level of connected stereo headphones.

㉒ **PICTURE**
To make picture sharper (SHARP) or softer (SOFT).

㉓ **TBC**
When the tape in the cassette is loose or damaged, or when the tape movement is unstable during recording or playback, the playback picture may shake from side to side and the picture may become distorted. In this case, activate the Time Base Corrector by setting the TBC Switch to ON, and the picture will become stable and the shaking will be minimized.
- For normal use, set the TBC Switch to OFF.
- During playback of some pre-recorded tapes, the tape may shake vertically. In such a case, set the TBC Switch to OFF.
- This function only works during normal playback in the PAL system.

㉔ **16:9**
AUTO: For automatically identifying the pictures as 16:9 pictures or 4:3 pictures during recording and playback and showing them on the wide TV screen.
- Normally set at this position.

ON: For recording and playback in such a way that the pictures expanded to 16:9 are shown on the wide TV screen at all time.
OFF: For recording and playback in such a way that 4:3 pictures are shown on the wide or 4:3 TV screen at all times.

㉕ **STEREO, M1 and M2 Indicators**
When receiving a TV programme, the type of sound system in which it is broadcast is automatically indicated.

㉖ **AI Indicator**
Lights up when the AI function is on.

㉗ **INPUT SELECT**
When Recording via the AV3 sockets on the front panel, select A3 by pressing ∧ ∨ and set this switch to S-VIDEO or LINE.
S-VIDEO: Through the S-VIDEO IN and AUDIO IN sockets
LINE: Through the VIDEO IN and AUDIO IN sockets

㉘ **EDIT MODE**
PLAYER: When this VTR is used as the playback VTR during editing operations.
RECORDER: When this VTR is used as the recording VTR during editing operations.
- Normally set at this position.

PASSIVE: When operating this VTR using another VTR or an editing controller.
- The picture quality best suited for editing is selected.
- When setting at this position, operation will not be possible and the On Screen Display will not appear. (See page 36 for details.)

㉙ **HI-FI/NORMAL MIX**
OFF: Normally set at this position to reproduce the better sound available from the Hi-Fi track.
ON: Both sound tracks (the Hi-Fi sound track and the normal sound track) are played back mixed together. Use this setting when playing back a cassette tape which has been insert edited or audio dubbed.

㉚ **VIDEO MODE**
COLOUR: When performing recording and playback in colour.
AUTO: The VTR automatically distinguishes between colour and black-and-white during recording and playback.
B/W: When performing recording and playback in black-and-white.

㉛ **AI**
ON: Using the AI function, recording and playback are performed in the state which achieves optimum picture quality in light of characteristics of a tape.
- The picture sharpness cannot be adjusted in this setting.

OFF: Turns off the AI function.

㉜ **NICAM/MONO**
NICAM: Normally set at this position.
MONO: Only set at this position to record the normal sound during a NICAM broadcast or if the stereo sound is distorted due to inferior reception conditions.

㉝ **CHECK/PROG**
To select a timer programme number.
"1, 2, 3... or 8" is lit.
To display details of preset timer recording.

㉞ **SLEEP (SHIFT)**
To set the time to turn off the VTR automatically.
To store a programme position.

㉟ **TIMER REC**
To turn the timer recording function on and off.
⏲ is lit or not lit.
Once Operating timer recording function, the normal VTR operation is not possible unless this button is set to off.

㊱ **EDIT MENU**
To perform editing operations.

㊲ **▲▼**
To make selections from On Screen Display.

㊳ **ENTER**
To make selections from On Screen Display.

㊴ **PROG. CLEAR**
To cancel an editing programme.

㊵ **ESC**
To return to the previous page on the screen.
To stop editing.

㊶ **PLAYER**
To operate the playback VTR.

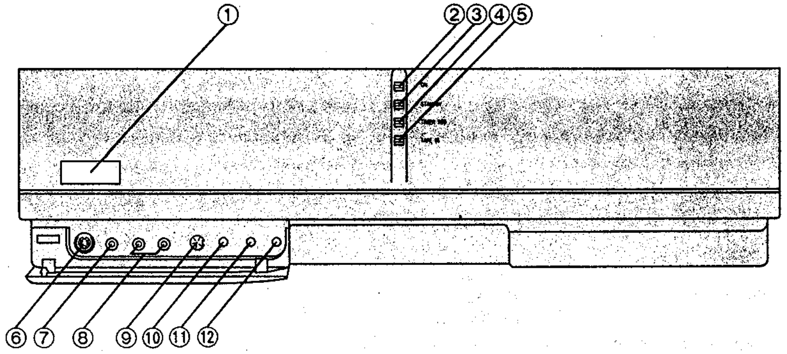
㊷ **MARK IN**
To set the edit start point.

㊸ **RECORDER**
To operate the recording VTR.

㊹ **MARK OUT**
To set the edit end point.

㊺ **Shuttle Ring**
To adjust playback speed backward or forward.

㊻ **Jog Dial**
To locate any desired frame with utmost precision.



① **Infrared Remote Control Receiver Window**

② **ON Indicator**
Lights up when the VTR is turned on.

③ **STANDBY Indicator**
Lights up when the AC mains lead is connected and the VTR is turned off.

④ **TIMER REC Indicator**
Lights up when the timer recording function is on.

⑤ **TAPE IN Indicator**
Lights up when a cassette is inserted.

⑥ **S-VIDEO IN (AV3)**
To connect the S-Video cable to a movie camera or to another VTR that has a S-Video output socket.

⑦ **VIDEO IN (AV3)**
To connect the video cable to a movie camera or to another VTR.

⑧ **AUDIO IN (AV3)**
To connect the audio cable to a movie camera or to another VTR.

⑨ **EDIT (5 pin)**
To connect another VTR equipped with an edit socket or an editing controller.

⑩ **SYNC. EDIT**
To connect a movie camera or another VTR equipped with synchronized editing capability.

⑪ **MIC**
To connect a microphone for recording. Once connected, this socket has priority over other input terminals.

⑫ **PHONES**
To connect stereo headphones.

⑬ **RF OUT**
To connect to the aerial terminal on a TV set.

⑭ **LEVEL**
Used to adjust the UHF aerial signal strength.
HIGH: For normal position.
LOW: If a diagonal pattern or stripes appear on the picture.

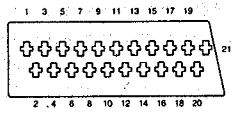
⑮ **NORMAL/S-VIDEO OUT/TEST SIGNAL**
NORMAL: Normally set to this position.
S-VIDEO OUT (AV1): Set to this position when connecting the VTR to a TV set equipped with 21-pin AV Connector with pins for separate Y/C signal input.
TEST SIGNAL: Set to this position when tuning the TV into the VTR. The test signal is transmitted on channel 36 and AV1.

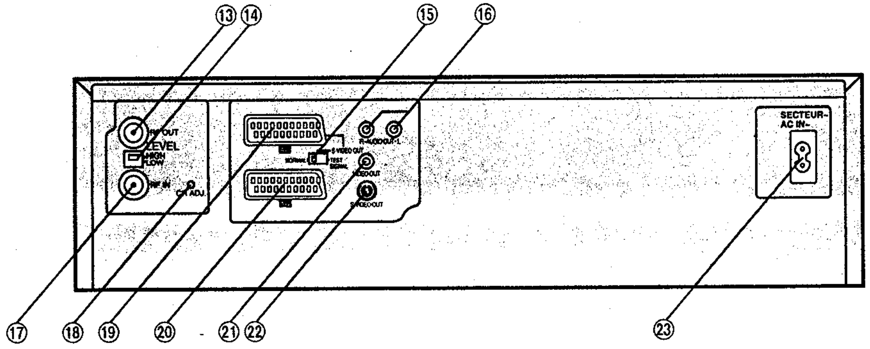
⑯ **AUDIO OUT**
To connect the audio cable to a TV or another VTR.

⑰ **RF IN**
To connect to the external aerial.

⑱ **CH ADJ.**
To adjust the RF transmitting channel 30~42.

⑲ **AV1**
This 21-pin scart terminal carries input and output signals for both picture and sound. TV sets equipped with a similar socket can be connected here.
This is also called Scart
Peritel
Euro Connector
Euro AV





NORMAL (AV1/AV2)	S-VIDEO (AV1)
1 AUDIO OUTPUT CH2 (R)	1 AUDIO OUTPUT CH2 (R)
2 AUDIO INPUT CH2 (R)	2 AUDIO INPUT CH2 (R)
3 AUDIO OUTPUT CH1 (L)	3 AUDIO OUTPUT CH1 (L)
4 AUDIO GND	4 AUDIO GND
5 BLUE GND	5 No connection
6 AUDIO INPUT CH1 (L)	6 AUDIO INPUT CH1 (L)
7 BLUE OUTPUT (AV1) BLUE INPUT (AV2)	7 No connection
8 SWITCHING VOLTAGE	8 SWITCHING VOLTAGE
9 GREEN GND	9 No connection
10 No connection	10 No connection
11 GREEN OUTPUT (AV1) GREEN INPUT (AV2)	11 No connection
12 No connection	12 No connection
13 RED GND	13 No connection
14 BLANKING GND	14 No connection
15 RED OUTPUT (AV1) RED INPUT (AV2)	15 C OUT
16 BLANKING	16 No connection
17 VIDEO OUTPUT GND	17 VIDEO OUTPUT GND
18 VIDEO INPUT GND	18 No connection
19 VIDEO OUTPUT	19 Y OUT
20 VIDEO INPUT	20 VIDEO INPUT
21 GND	21 GND

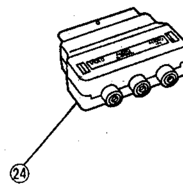
Note: Signals connected to AV2 will be automatically output to AV1 when the VTR is in standby mode, regardless of input select setting.

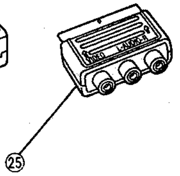
⑳ **AV2**
To connect to a satellite receiver or another VTR.
•Only used as the input socket.

㉑ **VIDEO OUT**
To connect the video cable to a TV or another VTR.

㉒ **S-VIDEO OUT**
To connect the S-Video cable to a TV or another VTR that has a S-Video input socket.

㉓ **AC IN~**
To connect to the main power supply.

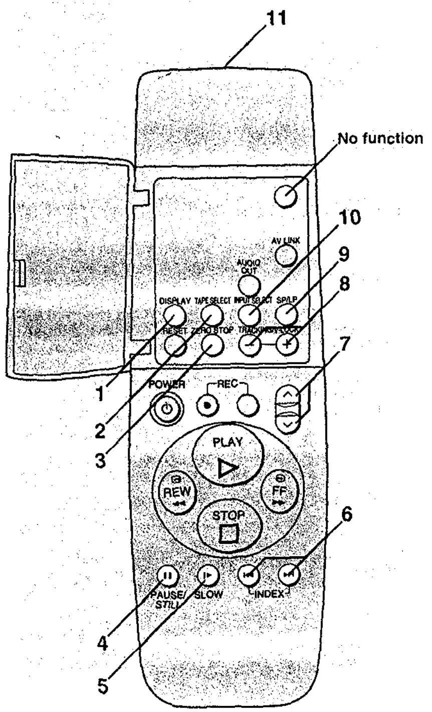




㉔ **21 pin—Phono Transformer Adaptor (Output)**
Inserting this adaptor into AV1 allows it to be used as the Phono Audio/Video output socket.
VIDEO: To connect the video cable to a TV or another VTR.
AUDIO (L/MONO, R): To connect the audio cable to a TV or another VTR.

㉕ **21 pin—Phono Transformer Adaptor (Input)**
Inserting this adaptor into AV1 or AV2 allows it to be used as the Phono Audio/Video input socket.
VIDEO: To connect the video cable to a movie camera or another VTR.
AUDIO (L/R): To connect the audio cable to a movie camera or another VTR.

Infra-red Remote Controller



1 DISPLAY
To change the indication on the VTR Display.

→Clock→Counter→Remaining Tape Time→

2 TAPE SELECT
To set the cassette tape length in order to obtain correct indication of the remaining tape time.

E195: For E30, -60, -90, -120, -180 and -195 tapes
E240: For E240 tape
E260: For E260 and -300 tapes

3 ZERO STOP
For the zero stop function.

4 PAUSE/STILL
During playback: Still picture
During recording: To interrupt recording

5 SLOW
To activate slow playback.

6 INDEX
For the index search function.

7 ∨∧
To select the required programme position (TV station) of the VTR.

8 TRACKING/V-LOCK
For manual tracking adjustment
The + and – buttons are used to adjust the tracking when, for example, noise bars on the picture are better removed manually than by the automatic digital tracking control. After making a manual adjustment, press both buttons together to return to automatic digital tracking control.

For slow tracking adjustment
When noise bars appear during Still, Still Advance or Slow playback, switch over to slow playback and adjust with the + or – Button to reduce the noise bars.

For vertical locking adjustment
Use the + and – buttons to minimize any vertical jitter during still-picture playback.

9 SP/LP
To select the tape speed desired for recording.

10 INPUT SELECT
To select the "A1", "A2" or "A3" external recording source.

11 Infra-red Transmitter

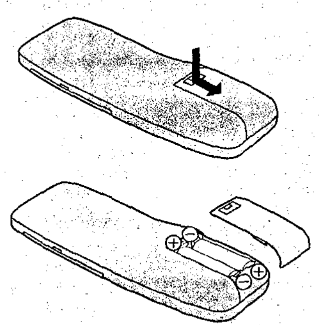
Power Source for the Remote Controller

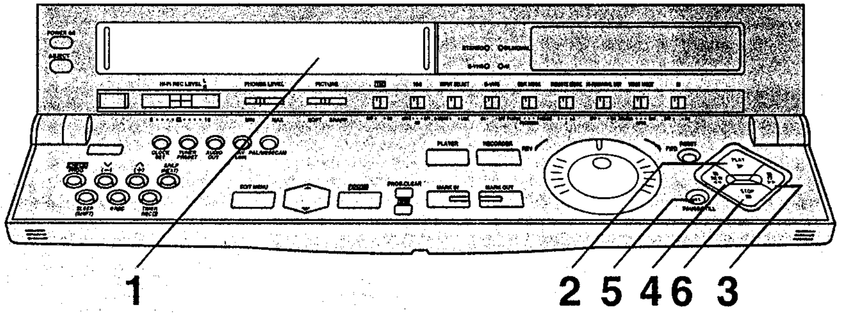
The remote controller is powered by 2 "UM3" or "R6" size batteries. The life of the batteries is about one year, although this depends on the frequency of use.

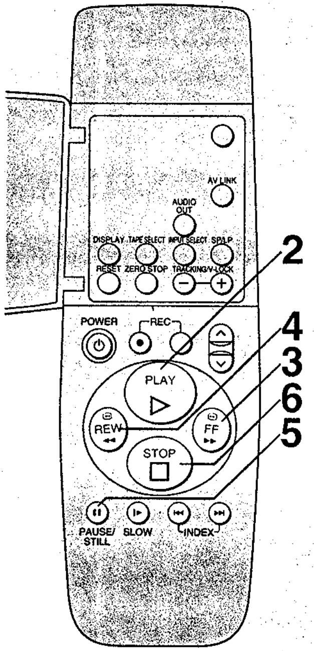
Precautions for Battery Replacement

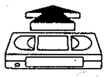
- Load the new batteries with their polarity (⊕ and ⊖) aligned correctly.
- Do not apply heat to the batteries, or an internal short-circuit may occur.
- If you do not intend to use the remote controller for a long period of time, remove the batteries and store them in a cool and dry place.
- Remove spent batteries immediately and dispose of them.
- Do not use an old and a new battery together, and never use an alkaline battery with a manganese battery.

Installing the Batteries







Operations	Display Symbols	
1 		Insert a recorded cassette tape.
2 PLAY ▷	▷	Start viewing the picture.
3 FF ▸▸	▷▷	Search forward by tapping **FF**. •To change back to normal playback, press **PLAY**.
4 REW ◂◂	◁◁	Search backward by tapping **REW**. •To change back to normal playback, press **PLAY**.
5 PAUSE/ STILL	‖	View a still picture. •To continue the normal playback, press **PLAY** or **PAUSE/STILL**.
6 STOP □		Stop viewing the picture.

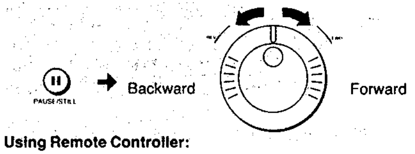
Other Playback Functions

To change the Playback Speed

Using Shuttle Ring:

1 Press **PAUSE/STILL** on the VTR.

2 Rotate Shuttle Ring.



Using Remote Controller:

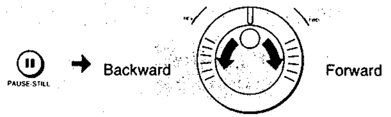
Press **SLOW** during playback to activate slow playback.

SLOW

To locate the Desired Picture exactly

1 Press **PAUSE/STILL** on the VTR.

2 Turn Jog Dial.



To obtain High Speed Picture during Fast Forward or Rewind

Keep **FF** pressed during fast forward.
Keep **REW** pressed during rewind.

REW ◂◂ FF ▸▸

To return to a Specified Scene

1 Press **RESET** to set the counter to 0:00.00.

RESET ○

2 After playback, press **ZERO STOP** in the stop mode.

ZERO STOP ○

- The tape will be rewound or fast forwarded to 0:00.00.

VHS Index Search System

It is very easy to find the beginning of each recording, because a special index signal is recorded at the start of each recorded segment on the tape.

For example:

Searching for the 2nd recorded segment in the forward direction.
Press **INDEX ▶▶I** twice.

- After finding the specific recorded segment, playback starts automatically.
- For the reverse direction, press **INDEX I◀◀**.
- Up to 20 programmes can be searched for in both directions.

Recording Index Signals

Index signals are recorded in following cases.
WRITE indicator appears on the Display.

- When a recording is started by pressing **REC**.
- When **REC** is pressed during recording.
- When timer recording is activated.

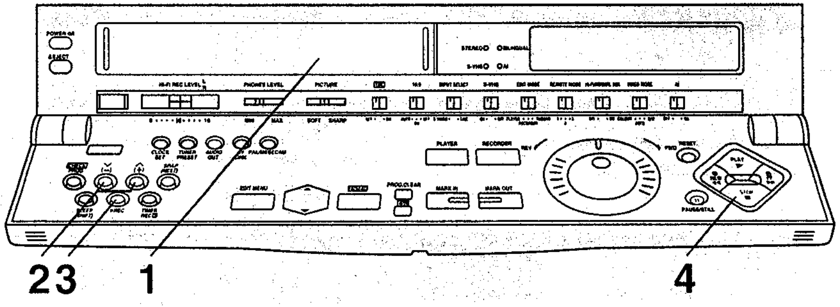
Note:

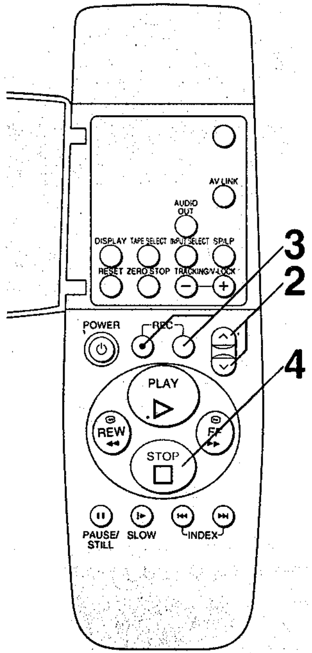
- During Playback, set **PAL/MESECAM**. **(AG-4700E only)**

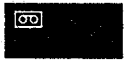
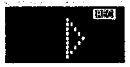
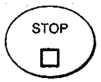
PAL:	When playing back a tape recorded in the PAL system
MESECAM:	When playing back a tape recorded in the MESECAM system MESECAM Indicator lights up.

- Audio reproduction of linear (conventionally recorded) tapes will be monaural when played back on the FM Hi-Fi video recorders.
- Cue or review playback will be automatically released after 10 minutes, and still or slow playback after 5 minutes.
- The index search function can only work correctly, if the index signals are spaced at least 3 minutes apart in the SP mode and 5 minutes apart in the LP mode.

On-the-spot Recording




AV LINK
AUDIO OUT
DISPLAY
TAPE SELECT
INPUT SELECT
SP/LP
RESET
ZERO STOP
TRACKING/V-LOCK
POWER
REC
PLAY
REW
FF
STOP
PAUSE/ STILL
SLOW
INDEX
3
2
4

Operations	Display Symbols	
1		Insert a cassette tape. • If it has already been inserted, press **POWER** to turn the VTR on.
2		Select TV station.
3		Start recording.
4 		Stop recording.

To select the Desired Tape Speed

Press **SP/LP** before recording.

To interrupt Recording

Press **PAUSE/STILL** during recording.
Press again to continue recording.

PAUSE/ STILL

To record One TV Programme while Viewing Another Programme

1 Refer to the on-the-spot recording operations steps **1** to **3**.

2 Select the TV programme on your TV set you wish to view at the present time.

To display the Approximate Remaining Tape Time

1 Press **TAPE SELECT** to select the corresponding cassette tape length.

TAPE SELECT
E 195

E195: For E30, -60, -90, -120, -180 and -195 tapes
E240: For E240 tape
E260: For E260 and -300 tapes

2 Press **DISPLAY**.

DISPLAY
1:05

→Clock→Counter→**Remaining Tape Time**

- The remaining tape time may not be displayed correctly depending on the tape used.

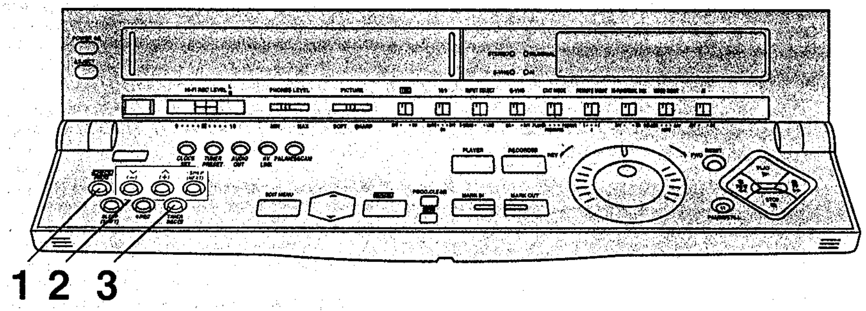
Recording of Stereo and Bilingual Programmes (AG-4700E only)

1 **Recordings are automatically made in the stereo or bilingual mode. This prevents errors in the selection of the dubbed or the original language.**
2 **During playback press AUDIO OUT to select the desired language. See page 40.**

- **This VTR does not support NICAM broadcast audio multiplexing.**

Notes:
- When a video cassette with a broken off tab is inserted, the "▭" indication will flash to indicate that recording is not possible.
- The recording pause mode will be automatically released after 5 minutes, and be back to the stop mode.

Timer Recording



Up to 8 timer programmes can be recorded up to one month in advance by setting the timer, including daily and weekly programmes.

Preparation

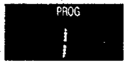
Insert a cassette tape with an intact erasure prevention tab.

For Example:

Timer programme number;	1
Programme position (channel);	2
Date;	27th, October
Starting time;	20:02
Ending time;	21:30
(present date; 16th October)	

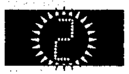
Operations **Display Symbols**

1

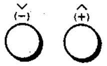


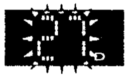
Select **Timer programme number** "1".

2 Set each item by pressing ∧ (+) or ∨ (−) and **SP/LP (NEXT)**.

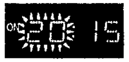


Set **Programme position** (channel) "2".

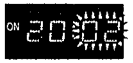




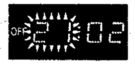
Set **Date** "27".
- For daily and weekly recording, see next page.



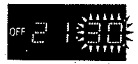
Set **Starting time** (hour) "20".



Set **Starting time** (minute) "02".



Set **Ending time** (hour) "21".



Set **Ending time** (minute) "30".
- There is no need to press **SP/LP (NEXT)**.

3

To activate timer recording, press **TIMER REC.**

Setting for Daily and Weekly Timer Recording

In the Date setting step, press ∨ (−) repeatedly until the desired day (days) is displayed.

Daily recording From Sunday to Saturday	SU MO TU WE TH FR SA
From Monday to Saturday	MO TU WE TH FR SA
From Monday to Friday	MO TU WE TH FR
Weekly recording For example, Sunday	SU

Timer Recording from External Signal Source

If Timer Recording is performed by a unit connected to the AV1/AV2 Socket or the Audio/Video/S-Video input sockets, select the A1, A2 or A3 indicator for the programme position.

A1: Through the AV1 socket
A2: Through the AV2 socket
A3: Through the AV3 sockets on front panel
Set **INPUT SELECT** on the VTR.
S-VIDEO: Through the S-VIDEO IN and AUDIO IN sockets
LINE: Through the VIDEO IN and AUDIO IN sockets

Selecting the Desired Tape Speed

After step **2**, press **SP/LP (NEXT)** and select SP or LP by pressing ∧ (+) or ∨ (−).

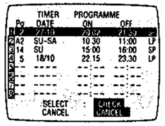
Setting other Programmes in Succession

Repeat steps **1** and **2**.

Checking a Timer Programme

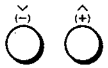
Select the timer programme number to be checked by pressing **CHECK/PROG.**

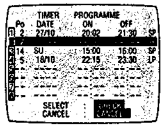
On Screen Display


TIMER PROGRAMME
Po DATE ON OFF
1 2 27/10 20:02 21:30 SP
2 A2 SU-SA 10:30 11:00 LP
3 14 SU 15:00 16:00 SP
4 5 18/10 22:15 23:30 LP
5
6
7
8
SELECT : CHECK
CANCEL : CANCEL

Cancelling a Timer Programme

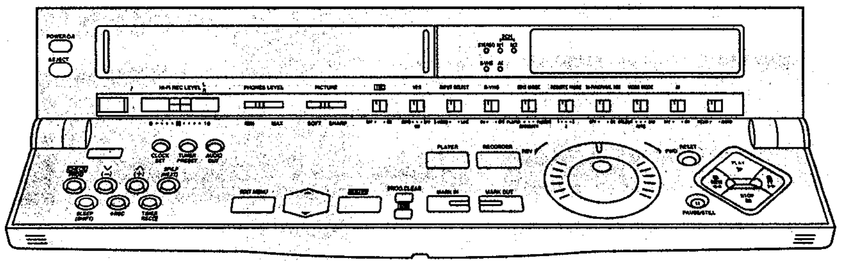
1. Press **TIMER REC** to turn off the timer recording function.
2. Select the timer programme number to be canceled by pressing **CHECK/PROG.**
3. Press ∧ (+) and ∨ (−) simultaneously for more than 3 seconds.




TIMER PROGRAMME
Po DATE ON OFF
1 2 27/10 20:02 21:30 SP
2
3 14 SU 15:00 16:00 SP
4 5 18/10 22:15 23:30 LP
5
6
7
8
SELECT : CHECK
CANCEL : CANCEL

Note:
If a timer recording is not performed to the end (due to insufficient tape or cancellation by the user), the programmed timer recording data will be cancelled from the memory by 4 a.m. two days later.
However, if the Timer Record Function is activated at that time, the programmed timer recording data will be cancelled at 4 a.m. the next day.

Other Functions



Automatic VTR Off Time Setting

Press **SLEEP** for the desired time.

SLEEP
(SHIFT)
OFF
0:30

- Each press gives a 30 minutes time span up to 9 hours.
- To cancel the setting time, press **SLEEP** repeatedly to set 0:00.

NTSC Playback

Tapes recorded in the NTSC system can be played back with this VTR via a PAL system TV set.

- The playback picture may roll up or down. If the TV set is equipped with a V-HOLD control, it may be possible to stop the picture movement by adjusting this control.
- Depending on the TV set used, the picture may be in black and white. However, this is not an indication of a malfunction.
- NTSC is the TV broadcasting system used in U.S.A., Japan, and some other countries.
  PAL is another TV broadcasting system used in U.K., Germany and many other parts of the world.
  This VTR will not replay or record tapes on the SECAM broadcasting system.
  PAL 525/60 is modified version of the PAL broadcasting system to allow most UK TV's to reproduce a colour picture when an NTSC tape is replayed on this VTR.
  However due to the system change, the picture may shrink, roll or not reproduce colour on some televisions.

Note:

Because the PAL 525/60 is not a true PAL signal, NTSC recordings cannot be dubbed onto another VTR.
In addition, NTSC tapes replayed on this VTR, cannot be dubbed onto another VTR.

Other Automatic Functions

Automatic Playback

When a cassette without an erasure prevention tab is inserted, the VTR starts playback automatically.

VTR-off Playback

When the VTR is off, an inserted cassette can be played back by pressing **PLAY**.

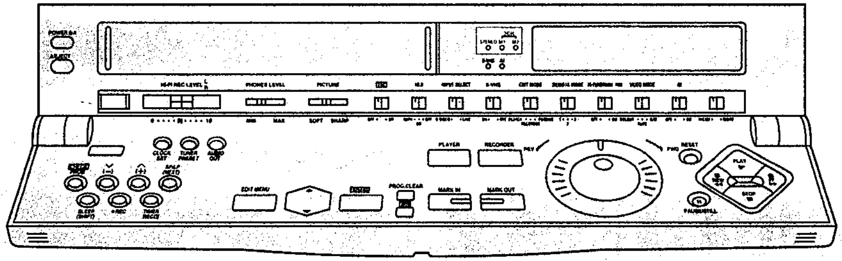
Automatic Rewinding

When the tape reaches its end during recording (except for timer recording) or playback, it will automatically be rewound to the beginning.

Automatic Switching Off and Ejection

When the VTR is switched off, an inserted cassette can be ejected simply by pressing **EJECT**. The VTR will eject the cassette and automatically turn itself off again.

The NICAM Broadcast System For AG-4700B



NICAM is a 2 Channel sound broadcast system to provide either a high quality stereo sound track or 2 independent MONO sound tracks, M1 and M2.

NICAM programmes are always accompanied by standard sound broadcasts and you can select the desired sound with **NICAM/MONO** (when recording) or with **AUDIO OUT** (when playback).

The NICAM digital stereo sound can only be recorded on the Hi-Fi audio track.

When a stereo, dual-soundtrack or mono NICAM programme is being received, the indicators are lit to inform you of the type of broadcast.

Reception of a NICAM Stereo Broadcast

When the STEREO indicator is lit, set **NICAM/MONO** to NICAM to be able to record on the Hi-Fi sound track in stereo.
The Audio cable or the 21 pin scart cable must also be connected to a stereo TV in order to hear the NICAM sound in stereo.

Reception of a NICAM Dual-Sound Broadcast

When the M1 and M2 indicators are lit, set **NICAM/MONO** to NICAM if you want to record both channels on the Hi-Fi sound track. M1 is the left-hand channel and M2 is the right-hand channel.

Reception of a NICAM Monaural Broadcast

When a NICAM monaural broadcast is being received, only the M1 indicator is lit. To hear such a signal on both channels and to record it on both channels of the Hi-Fi track, set **NICAM/MONO** to NICAM.

- To record the regular sound (ordinary normal sound) on the FM audio tracks when a NICAM programme is received, set **NICAM/MONO** to MONO.

Important Note for the NICAM System:

When this VTR tuner is switched on, it will automatically switch to a NICAM broadcast, if NICAM is being transmitted. During test transmissions, it is possible that the sound received doesn't correspond to the picture being viewed. In order to receive a synchronized sound and picture, select monaural sound with either **AUDIO OUT** or with **NICAM/MONO**. This will only apply until NICAM transmissions are fully operational.
At this time the NICAM signal is transmitted on stereo channels only, since the M1 and M2 formats are not yet available. Even if the soundtrack is in MONO the stereo indicator will remain illuminated.

Editing Preparation

This VTR is equipped with programme editing functions. If connected via edit cable to another VTR, it is possible to control such functions as tape playback and editing.

Connections

See the connection diagram on page 9.

Connecting This VTR with Another Identical One

- Connect the two VTRs with an edit cable.
- Connect the recording VTR to the TV.
- Connect the AV1 socket on the playback VTR to the AV2 socket on the recording VTR.
- Select A2 by pressing ∧ ∨ on the recording VTR.
- Set **EDIT MODE** to PASSIVE on the playback VTR, and to RECORDER on the recording VTR.
- Control is performed by the recording VTR.

Using This VTR as the Recording VTR

- Connect this VTR to the playback unit with an edit cable.
- Connect the AV1 socket on this VTR to the TV.
- Connect the AV2 socket or the AUDIO/VIDEO/S-VIDEO IN (AV3) sockets on this VTR to the playback unit.
- Select A2 or A3 by pressing ∧ ∨ on this VTR.

  A2: Through the AV2 socket

  A3: Through the AV3 sockets on front panel

  Set **INPUT SELECT** on this VTR.

  S-VIDEO: Through the S-VIDEO IN and AUDIO IN sockets

  LINE: Through the VIDEO IN and AUDIO IN sockets
- Set **EDIT MODE** on this VTR to RECORDER.
- Control is performed by this VTR.

Using This VTR as the Playback VTR

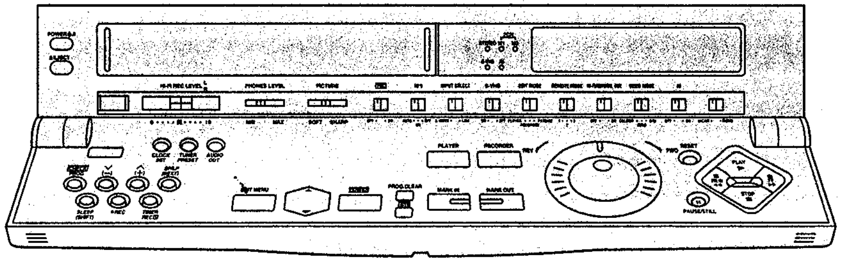
- Connect this VTR to the recording unit with an edit cable.
- Connect the AV1 socket on this VTR to the TV.
- Connect the AV2 socket on this VTR to the recording unit.
- Select A2 by pressing ∧ ∨ on this VTR.
- Set the input switch on the recording unit to AV.
- Set **EDIT MODE** on this VTR to PLAYER.
- Control is performed by this VTR.

Caution:

When this VTR is used as the playback VTR, it may not be possible to perform editing operations properly depending on the type of the recording VTR. In such a case, use this VTR as the recording VTR.

Notes:

- During editing operations, use controls on this VTR, not the other unit.
- When a movie camera is connected, operating this VTR will not facilitate reverse playback or reverse slow playback on the movie camera.
- When **EDIT MODE** on this VTR is set to PASSIVE, operation will not be possible after editing function has been performed, and the On Screen Display will not appear. Disconnect the edit cable and set **EDIT MODE** to PLAYER or RECORDER to resume operation.
- When making a connection using an edit cable, disconnection of the AC mains lead on this VTR may result in erroneous display patterns on the other unit.
- When operating the Jog Dial and Shuttle Ring, it is only possible to reset the tape counter of the other unit during still playback.
- The supplied edit cable cannot be used to connect two other VTRs with edit sockets.
- The On Screen Display does not appear when no input signals are supplied from another unit or when a non-recorded cassette is played.
- The On Screen Display may appear distorted if the picture is affected by noise.



Editing Functions

Using this VTR, 4 types of manual editing and 4 types of programme editing can be selected.
In programme editing, after programming up to 10 scenes for each type (50 scenes for Assemble Editing), editing can be performed automatically.

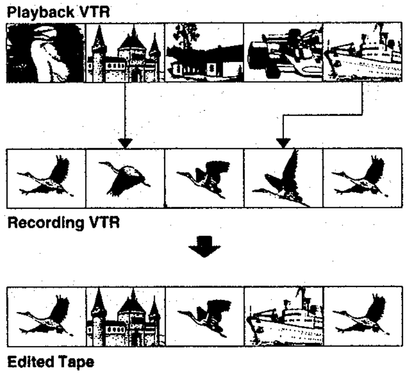
Manual Editing	Programme Editing
•Copying	•Assemble Editing
•Insert Editing	•Insert Editing
•AV Insert Editing	•AV Insert Editing
•Audio Dubbing	•Audio Dubbing

Copying

Allows the re-recording (copying) of the picture and sound from one tape onto another tape.

Insert Editing

Allows the partial replacement of the picture and Hi-Fi sound on a recorded tape. Normal sound is left in its original state.



- To hear the original sound, select the normal sound track by pressing **AUDIO OUT**.
- To hear the new sound and original sound mixed together, set **HI-FI/NORMAL MIX** to ON.

AV Insert Editing

Allows the partial replacement of the picture and both the Hi-Fi and normal sound on a recorded tape.

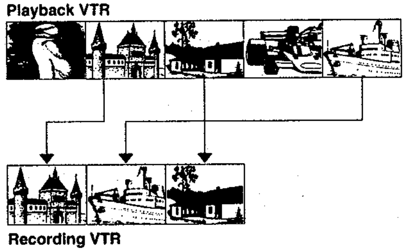
Audio Dubbing

Allows the partial replacement of the normal sound on a recorded tape. Hi-Fi sound is left in its original state.

- To hear the new sound, select the normal sound track by pressing **AUDIO OUT**.
- To hear the new sound and original sound mixed together, set **HI-FI/NORMAL MIX** to ON.

Assemble Editing

Allows the required scenes (picture and sound) to be picked up from one or more recorded tapes and recorded in any desired order onto another tape.

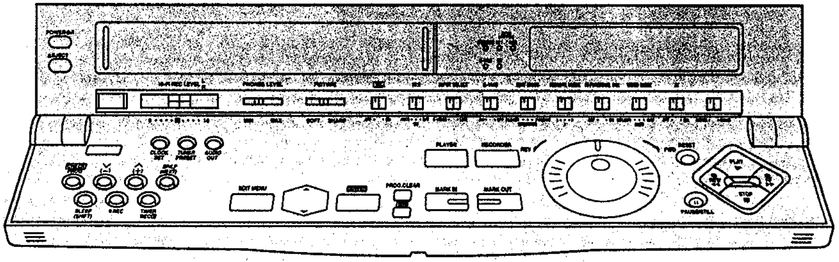


VITC Editing

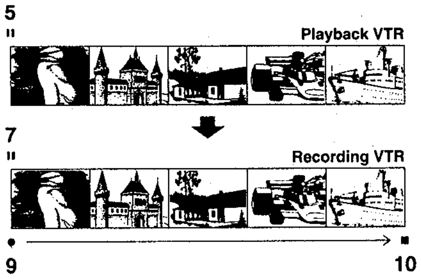
The AG-4700 is able to read or write VITC (Vertical Interval Time Code). See page 22.

- VITC enables picture-precise editing.
- The VITC can also be read during pause and slow-motion.
- Editing using the VITC function cannot be performed with movie cameras which have edit sockets (5-pin).
- The editing accuracy when using the VITC function is approximately ±3 frames. This accuracy decreases to approximately ±8 frames when record and pause are repeated.

Manual Editing



Copying



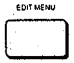
Preparation

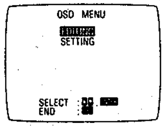
- Make the necessary connections. See page 36.
- Insert a recorded cassette into the playback VTR, and a cassette with an intact erasure prevention tab into the recording VTR.
- Confirm that the TV is on and the VTR viewing channel is selected.

Operations **On Screen Display**

Set for Editing

1

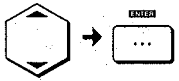


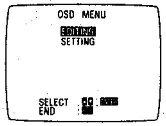


OSD MENU
EDITING
SETTING
SELECT :
END :

Press **EDIT MENU**.

2

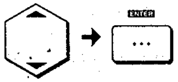


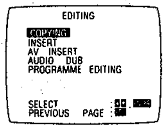


OSD MENU
EDITING
SETTING
SELECT :
END :

Select **EDITING**.

3





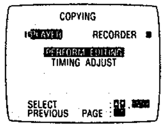
EDITING
COPYING
INSERT
AV INSERT
AUDIO DUB
PROGRAMME EDITING
SELECT :
PREVIOUS PAGE :

Select **COPYING**.
- If the playback VTR receives no input signals, the On Screen Display may disappear. In such a case, follow the next step and then the On Screen Display will appear.

Playback VTR

4

PLAYER
PAUSE·STILL

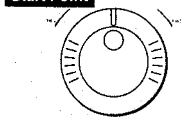


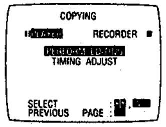
COPYING
PLAYER RECORDER
PERFORM EDITING
TIMING ADJUST
SELECT :
PREVIOUS PAGE :

Press **PLAYER** and **PAUSE/STILL**.
- The picture from the playback VTR appears on the screen.

Operations **On Screen Display**

5 **Start Point**



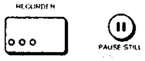


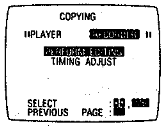
COPYING
PLAYER RECORDER
PERFORM EDITING
TIMING ADJUST
SELECT :
PREVIOUS PAGE :

Search for the edit start point on the playback VTR.

Recording VTR

6

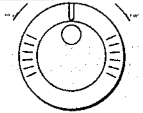


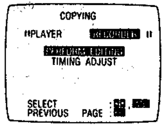


COPYING
PLAYER RECORDER
PERFORM EDITING
TIMING ADJUST
SELECT :
PREVIOUS PAGE :

Press **RECORDER** and **PAUSE/STILL**.
- The picture from the recording VTR appears on the screen.
- Steps **6** and **7** need not be performed when a non-recorded cassette is used.

7 **Start Point**



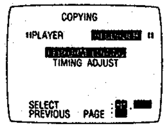


COPYING
PLAYER RECORDER
PERFORM EDITING
TIMING ADJUST
SELECT :
PREVIOUS PAGE :

Search for the edit start point on the recording VTR.

Start Editing

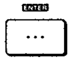
8

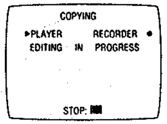


COPYING
PLAYER RECORDER
PERFORM EDITING
TIMING ADJUST
SELECT :
PREVIOUS PAGE :

Select **PERFORM EDITING**.

9



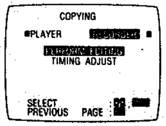


COPYING
PLAYER RECORDER
EDITING IN PROGRESS
STOP:

Press **ENTER**.
- Editing begins.

Stop Editing

10



COPYING
PLAYER RECORDER
PERFORM EDITING
TIMING ADJUST
SELECT :
PREVIOUS PAGE :

Press **ESC** to stop editing.

11

Press **EDIT MENU**.
- The On Screen Display disappears.

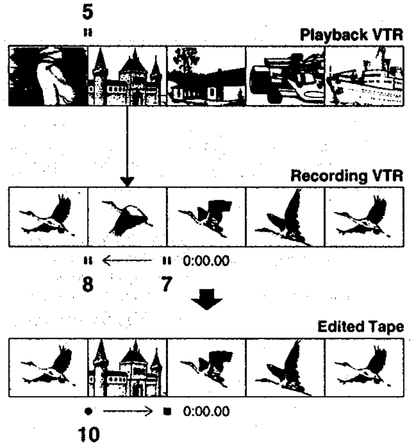
Insert, AV Insert Editing and Audio Dubbing

Preparation

- Make the necessary connections. See page 36.
- Insert a recorded cassette into the playback VTR, and a cassette with an intact erasure prevention tab into the recording VTR.
- Confirm that the TV is on and the VTR viewing channel is selected.

Example: Insert Editing

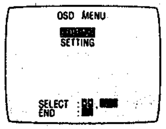
AV Insert Editing and Audio Dubbing are also performed using the same procedure.



Operations **On Screen Display**

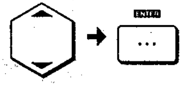
Set for Editing

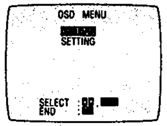
1


OSD MENU
SETTING
SELECT :
END :

Press **EDIT MENU**.

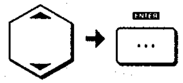
2

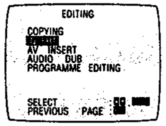



OSD MENU
SETTING
SELECT :
END :

Select **EDITING**.

3




EDITING
COPYING
AV INSERT
AUDIO DUB
PROGRAMME EDITING
SELECT :
PREVIOUS PAGE :

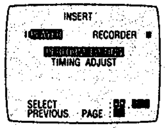
Select **INSERT**.

- If the playback VTR receives no input signals, the On Screen Display may disappear. In such a case, follow the next step and then the On Screen Display will appear.

Playback VTR

4

PLAYER
PAUSE/STILL

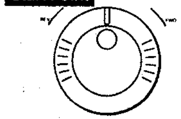

INSERT
RECORDER ■
TIMING ADJUST
SELECT :
PREVIOUS PAGE :

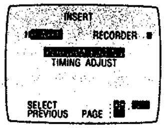
Press **PLAYER** and **PAUSE/STILL**.

- The picture from the playback VTR appears on the screen.

Operations **On Screen Display**

5 Start Point

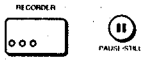


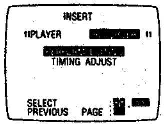

INSERT
RECORDER ■
TIMING ADJUST
SELECT :
PREVIOUS PAGE :

Search for the edit start point on the playback VTR.

Recording VTR

6

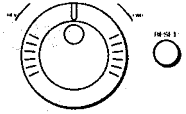


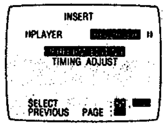

INSERT
II PLAYER II
TIMING ADJUST
SELECT :
PREVIOUS PAGE :

Press **RECORDER** and **PAUSE/STILL**.

- The picture from the recording VTR appears on the screen.

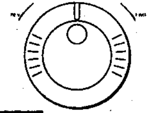
7 End Point

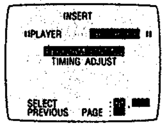



INSERT
II PLAYER II
TIMING ADJUST
SELECT :
PREVIOUS PAGE :

Search for the edit end point on the recording VTR and press **RESET**.

8 Start Point

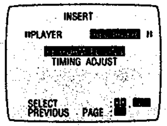



INSERT
II PLAYER II
TIMING ADJUST
SELECT :
PREVIOUS PAGE :

Search for the edit start point on the recording VTR.

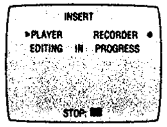
Start Editing

9


INSERT
II PLAYER II
TIMING ADJUST
SELECT :
PREVIOUS PAGE :

Select **PERFORM EDITING**.

10


INSERT
▶PLAYER RECORDER ●
EDITING IN PROGRESS
STOP:

Press **ENTER**.

- Editing begins.
- Editing will finish when the counter reaches 0:00.00.

11

Press **EDIT MENU**.

- The On Screen Display disappears.

Note:
If the VITC function is activated, **RESET** will be inoperative. In such a case, turn off the VITC function.

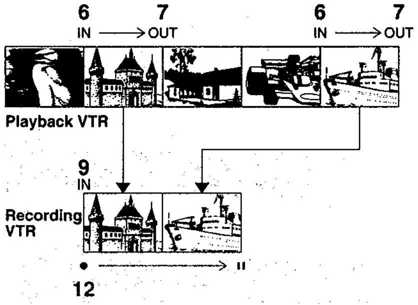
Programme Editing

Assemble Editing

By setting the edit start point and end point on the playback VTR, along with the edit start point on the recording VTR, assemble editing of up to 10 scenes can be performed automatically.

Preparation

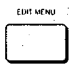
- Make the necessary connections. See page 36.
- Insert a recorded cassette into the playback VTR, and a cassette with an intact erasure prevention tab into the recording VTR.
- Confirm that the TV is on and the VTR viewing channel is selected.

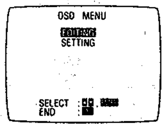


Operations **On Screen Display**

Set for Editing

1

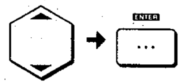


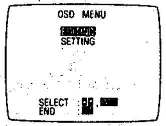


OSD MENU
EDITING
SETTING
SELECT :
END :

Press **EDIT MENU**.

2

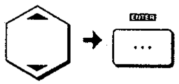


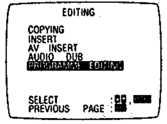


OSD MENU
EDITING
SETTING
SELECT :
END :

Select **EDITING**.

3

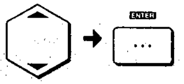


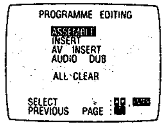


EDITING
COPYING
INSERT
AV INSERT
AUDIO DUB
PROGRAMME EDITING
SELECT :
PREVIOUS PAGE :

Select **PROGRAMME EDITING**.

4





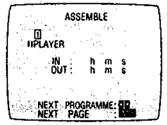
PROGRAMME EDITING
ASSEMBLE
INSERT
AV INSERT
AUDIO DUB
ALL CLEAR
SELECT :
PREVIOUS PAGE :

Select **ASSEMBLE**.
- If the playback VTR receives no input signals, the On Screen Display may disappear.
  In such a case, follow the next step and then the On Screen Display will appear.

Playback VTR

5

PLAYER
PAUSE STILL



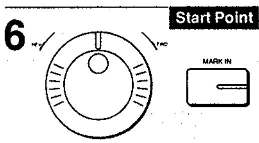
ASSEMBLE
1
IIPLAYER
IN : h m s
OUT : h m s
NEXT PROGRAMME :
NEXT PAGE :

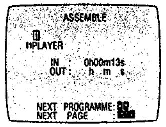
Press **PLAYER** and **PAUSE/STILL**.
- The picture from the playback VTR appears on the screen.

Operations **On Screen Display**

Start Point

6



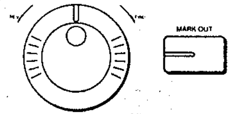


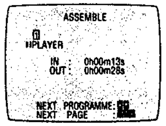
ASSEMBLE
1
IIPLAYER
IN : 0h00m13s
OUT : h m s
NEXT PROGRAMME :
NEXT PAGE :

Search for the edit start point on the playback VTR and press **MARK IN**.

End Point

7





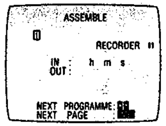
ASSEMBLE
1
IIPLAYER
IN : 0h00m13s
OUT : 0h00m28s
NEXT PROGRAMME :
NEXT PAGE :

Search for the edit end point on the playback VTR and press **MARK OUT**.
- If there is more than one programme, select a programme number using ▼ and ▲, and repeat steps **6** and **7**.

Recording VTR

8

RECORDER
PAUSE/STILL

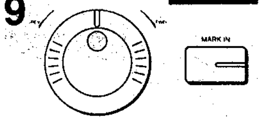


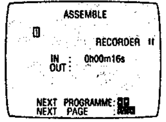
ASSEMBLE
1
RECORDER II
IN : h m s
OUT :
NEXT PROGRAMME :
NEXT PAGE :

Press **RECORDER** and **PAUSE/STILL**.
- The picture from the recording VTR appears on the screen.

Start Point

9

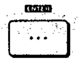


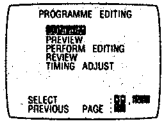


ASSEMBLE
1
RECORDER II
IN : 0h00m16s
OUT :
NEXT PROGRAMME :
NEXT PAGE :

Search for the edit start point on the recording VTR and press **MARK IN**.
- Step **9** need not be performed when a non-recorded cassette is used.

10



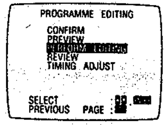


PROGRAMME EDITING
CONFIRM
PREVIEW
PERFORM EDITING
REVIEW
TIMING ADJUST
SELECT :
PREVIOUS PAGE :

Press **ENTER**.
- The edit start point and the edit end point are memorized.

Start Editing

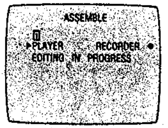
11



PROGRAMME EDITING
CONFIRM
PREVIEW
PERFORM EDITING
REVIEW
TIMING ADJUST
SELECT :
PREVIOUS PAGE :

Select **PERFORM EDITING**.

12



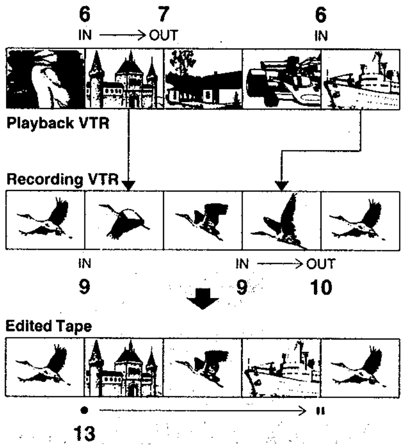
ASSEMBLE
1
▶PLAYER RECORDER ●
EDITING IN PROGRESS

Press **ENTER**.
- Editing begins.
- After editing of all programmes is completed, the both VTRs stop in still playback mode.

Insert, AV Insert Editing and Audio Dubbing

There are 2 types of programme.
To insert only a particular portion:
Set the edit start point and end point on the playback VTR, and the edit start point on the recording VTR.
To insert within fixed limits:
Set the edit start point on the playback VTR, and the edit start and end point on the recording VTR.

- If four points are set, insertion will end when the first end point is reached.


6
7
6
IN ——→OUT
IN
Playback VTR
Recording VTR
IN
IN ——→OUT
9
9
10
Edited Tape
13

Preparation

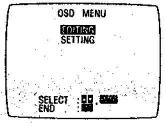
- Make the necessary connections. See page 36.
- Insert a recorded cassette into the playback VTR, and a cassette with an intact erasure prevention tab into the recording VTR.
- Confirm that the TV is on and the VTR viewing channel is selected.

Example: Insert Editing
AV Insert Editing and Audio Dubbing are also performed using the same procedure.

Operations **On Screen Display**

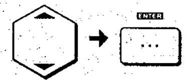
Set for Editing

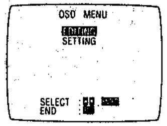
1


OSD MENU
EDITING
SETTING
SELECT :
END :

Press **EDIT MENU**.

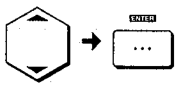
2

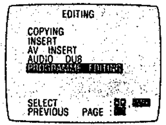



OSD MENU
EDITING
SETTING
SELECT :
END :

Select **EDITING**.

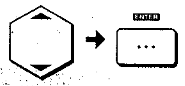
3

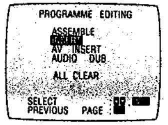



EDITING
COPYING
INSERT
AV INSERT
AUDIO DUB
PROGRAMME EDITING
SELECT :
PREVIOUS PAGE :

Select **PROGRAMME EDITING**.

4




PROGRAMME EDITING
ASSEMBLE
INSERT
AV INSERT
AUDIO DUB
ALL CLEAR
SELECT :
PREVIOUS PAGE :

Select **INSERT**.

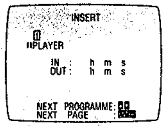
- If the playback VTR receives no input signals, the On Screen Display may disappear.
  In such a case, follow the next step and then the On Screen Display will appear.

Operations **On Screen Display**

Playback VTR

5

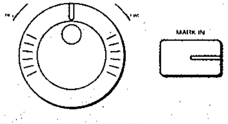
PLAYER
PAUSE STILL

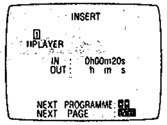

INSERT
PLAYER
IN : h m s
OUT : h m s
NEXT PROGRAMME :
NEXT PAGE :

Press **PLAYER** and **PAUSE/STILL**.

- The picture from the playback VTR appears on the screen.

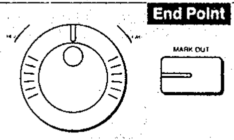
6 **Start Point**

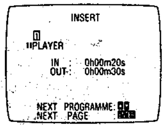



INSERT
PLAYER
IN : 0h00m20s
OUT : h m s
NEXT PROGRAMME :
NEXT PAGE :

Search for the edit start point on the playback VTR and press **MARK IN**.

7 **End Point**



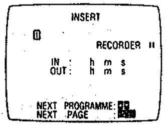

INSERT
PLAYER
IN : 0h00m20s
OUT : 0h00m30s
NEXT PROGRAMME :
NEXT PAGE :

Search for the edit end point on the playback VTR and press **MARK OUT**.

- This step is not necessary if the end point on the recording VTR has been set.

Recording VTR

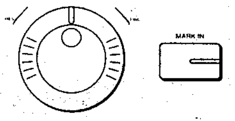
RECORDER
PAUSE STILL

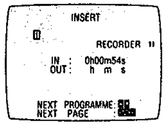

INSERT
RECORDER
IN : h m s
OUT : h m s
NEXT PROGRAMME :
NEXT PAGE :

Press **RECORDER** and **PAUSE/STILL**.

- The picture from the recording VTR appears on the screen.

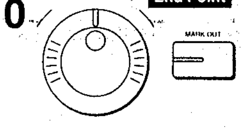
9 **Start Point**

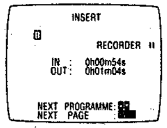



INSERT
RECORDER
IN : 0h00m54s
OUT : h m s
NEXT PROGRAMME :
NEXT PAGE :

Search for the edit start point on the recording VTR and press **MARK IN**.

10 **End Point**

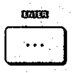


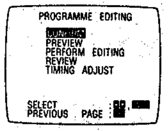

INSERT
RECORDER
IN : 0h00m54s
OUT : 0h01m04s
NEXT PROGRAMME :
NEXT PAGE :

Search for the edit end point on the recording VTR and press **MARK OUT**.

- This step is not necessary if the end point on the playback VTR has been set.
- If there is more than one programme, select a programme number using ▼ and ▲, and repeat steps **5** to **10**.

11




PROGRAMME EDITING
PREVIEW
PERFORM EDITING
REVIEW
TIMING ADJUST
SELECT :
PREVIOUS PAGE :

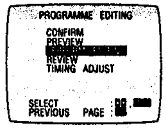
Press **ENTER**.

- The edit start point and the edit end point are memorized.

Operations | **On Screen Display**

Start Editing

12

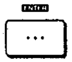


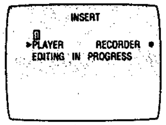
PROGRAMME EDITING
CONFIRM
PREVIEW
PERFORM EDITING
REVIEW
TIMING ADJUST
SELECT
PREVIOUS PAGE

Select PERFORM EDITING.

- If a programme is not correct, it will appear on the screen. Set the edit start and end points correctly.
- To see a preview before performing editing, select **PREVIEW**. See page 48.

13





INSERT
1
▶PLAYER RECORDER ●
EDITING IN PROGRESS

Press ENTER.

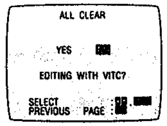
- Editing begins.
- After editing of all programmes is completed, the both VTRs stop in still playback mode.

Notes for Programme Editing:

- For the edit start point, use a location which is at least 10 seconds from the beginning of the tape. Otherwise, the programme will not be executed.
- Programme editing can be suspended in mid-execution by pressing **ESC**. As a result, however, the picture immediately after suspending may disappear.
- Programmes are stored even after editing is completed. Unless they are cancelled, programmes are stored even after the power has been turned off.
- Programme editing can not be performed with a movie camera that has a 4-digit counter. It can be performed with only a movie camera which has a counter display in hours, minutes, seconds format.

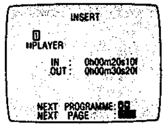
When the VITC function is on:

- If the programme on the normal counter has been stored, the On Screen Display shown below may appear after step **4**.
  If editing is to be performed using the VITC function, select **YES** to cancel all the editing programmes.
  (When the VITC function is off, the On Screen Display shown below will appear if the programme with the time code has been stored.)

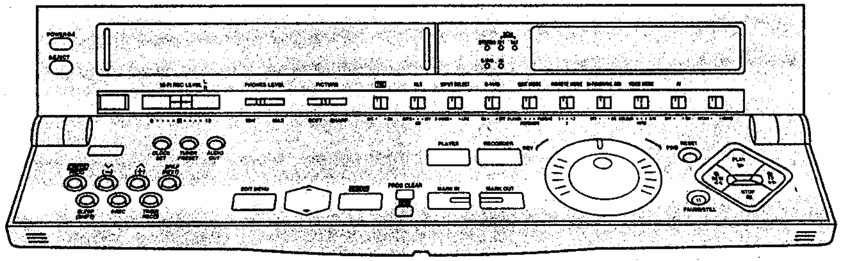


ALL CLEAR
YES
EDITING WITH VITC?
SELECT
PREVIOUS PAGE

- When **MARK IN** or **MARK OUT** is pressed, the time code is displayed on the screen in increments of hours, minutes, seconds and frames (25 frames per second).



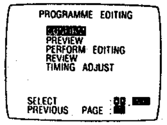
INSERT
1
▮PLAYER
IN : 0h00m20s10f
OUT : 0h00m30s20f
NEXT PROGRAMME :
NEXT PAGE :



Other Editing Functions

To confirm and Change Editing Programmes

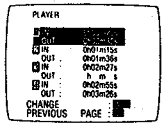
1 Select **CONFIRM** after setting the edit start and end points.



PROGRAMME EDITING
CONFIRM
PREVIEW
PERFORM EDITING
REVIEW
TIMING ADJUST
SELECT
PREVIOUS PAGE

2 Press **ENTER**.

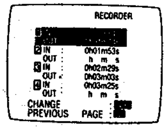
- The programme list for the playback VTR is displayed.



PLAYER
1 IN : [illegible]
OUT : [illegible]
2 IN : 0h01m15s
OUT : 0h01m36s
3 IN : 0h02m27s
OUT : h m s
4 IN : 0h02m55s
OUT : 0h03m26s
CHANGE
PREVIOUS PAGE

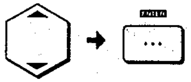
3 Press **RECORDER** to confirm the programmes on the recording VTR.

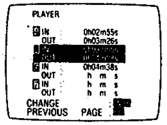
- Press **PLAYER** to return to the programme list on the playback VTR.



RECORDER
1 IN : [illegible]
OUT : [illegible]
2 IN : 0h01m53s
OUT : h m s
3 IN : 0h02m29s
OUT : 0h03m03s
4 IN : 0h03m25s
OUT : h m s
CHANGE
PREVIOUS PAGE

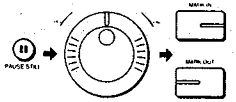
4 Select the programme to be changed.

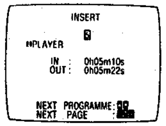




PLAYER
4 IN : 0h02m55s
OUT : 0h03m26s
5 IN : [illegible]
OUT : [illegible]
6 IN : 0h04m38s
OUT : h m s
7 IN : h m s
OUT : h m s
CHANGE
PREVIOUS PAGE

5 Search for the start or end point to be changed and press **MARK IN** or **MARK OUT**.



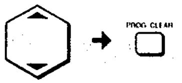


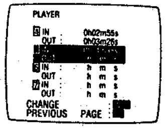
INSERT
5
▮PLAYER
IN : 0h05m10s
OUT : 0h05m22s
NEXT PROGRAMME :
NEXT PAGE :

6 Press **ENTER**.

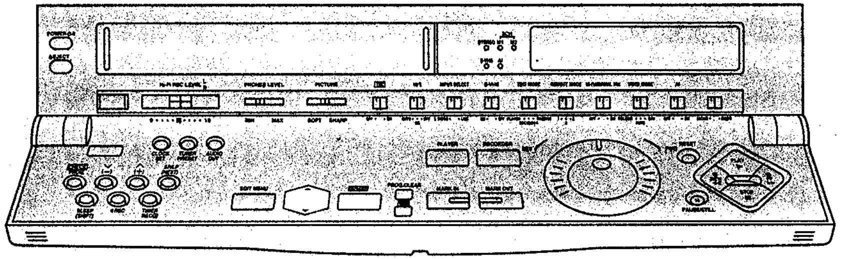
To cancel an Editing Programme

In step 4 above, select the programme to be canceled and press **PROG. CLEAR**.





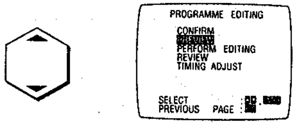
PLAYER
4 IN : 0h02m55s
OUT : 0h03m26s
5 IN : [illegible]
OUT : [illegible]
6 IN : h m s
OUT : h m s
7 IN : h m s
OUT : h m s
CHANGE
PREVIOUS PAGE



Preview Function

Before performing actual editing, this function allows confirmation of editing operations without recording.

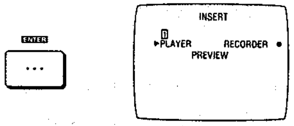
1 Select **PREVIEW** after setting the edit start and end points.



```
PROGRAMME EDITING
CONFIRM
PREVIEW
PERFORM EDITING
REVIEW
TIMING ADJUST

SELECT
PREVIOUS   PAGE :
```

2 Press **ENTER**.
- Preview begins.



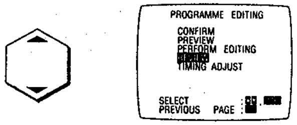
```
INSERT
1
▶PLAYER        RECORDER ●
     PREVIEW
```

Notes:
- Preview function works only when this VTR is used as the recording VTR.
- Preview function does not work during assemble editing.

Review Function

After editing has been completed, this function plays back from the edit start point to the edit end point on the recording VTR.

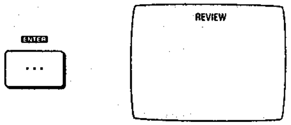
1 Select **REVIEW** after performing editing.



```
PROGRAMME EDITING
CONFIRM
PREVIEW
PERFORM EDITING
REVIEW
TIMING ADJUST

SELECT
PREVIOUS   PAGE :
```

2 Press **ENTER**.
- Review begins.



```
REVIEW
```

Edit Timing Adjustment

When performing editing in conjunction with a unit which has a different mechanism, there may be a lag in the edit start point due to a deviation between the time a pause cancellation signal is received by the recording unit and the time recording actually begins.
Edit Timing Adjustment is used to compensate the edit start and end time in light of this start-up time deviation.

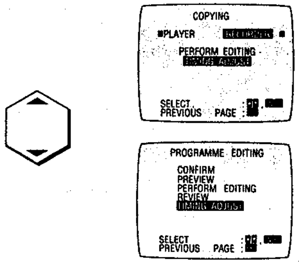
1 Record the second hand on a stopwatch with a movie camera.

2 Insert this recorded cassette into the playback unit, and a cassette with an intact erasure prevention tab into the recording VTR.

3 Using the point where the second hand reaches zero as the edit start point, perform copying.

4 Play back the copied tape, and check how many seconds had elapsed at the recording start point.
- If timing is correct, recording should begin at exactly zero seconds.

5 Select **TIMING ADJUST** from the screen below.



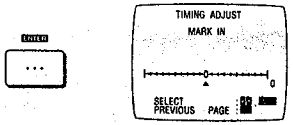
```
COPYING
■PLAYER        RECORDER ●
   PERFORM EDITING
   TIMING ADJUST

SELECT
PREVIOUS   PAGE :
```

```
PROGRAMME EDITING
CONFIRM
PREVIEW
PERFORM EDITING
REVIEW
TIMING ADJUST

SELECT
PREVIOUS   PAGE :
```

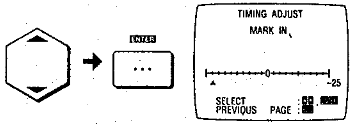
6 Press **ENTER**.



```
TIMING ADJUST
MARK IN

├┼┼┼┼┼┼┼┼┼0┼┼┼┼┼┼┼┼┼┤
          ▲          0
SELECT
PREVIOUS   PAGE :
```

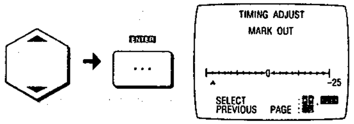
7 Adjust the timing for the start point by setting the amount of the discrepancy of the second hand.
- The setting is displayed in frame (1/25 of a second) units. Thus if, for example, one second had elapsed, set to −25.
- Corrections can be made in the range of ±30 frames (1.2 second).



```
TIMING ADJUST
MARK IN

├┼┼┼┼┼┼┼┼┼0┼┼┼┼┼┼┼┼┼┤
▲                   −25
SELECT
PREVIOUS   PAGE :
```

8 Adjust the timing for the end point in the same manner.



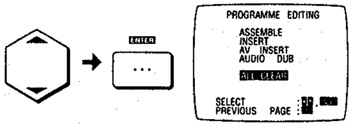
```
TIMING ADJUST
MARK OUT

├┼┼┼┼┼┼┼┼┼0┼┼┼┼┼┼┼┼┼┤
▲                   −25
SELECT
PREVIOUS   PAGE :
```

Note:
Edit timing adjustment function only works during programme editing.

To cancel All Editing Programmes

1 Select **ALL CLEAR** from the screen below.

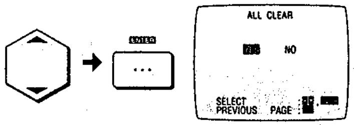


```
PROGRAMME EDITING
ASSEMBLE
INSERT
AV INSERT
AUDIO DUB

ALL CLEAR

SELECT
PREVIOUS   PAGE :
```

2 Select **YES**.
- All programmes will be cancelled.



```
ALL CLEAR

YES     NO

SELECT
PREVIOUS   PAGE :
```

Editing when not Using an Edit Cable

To connect a VTR or Movie Camera without an Edit Socket and use This VTR as the Recording VTR

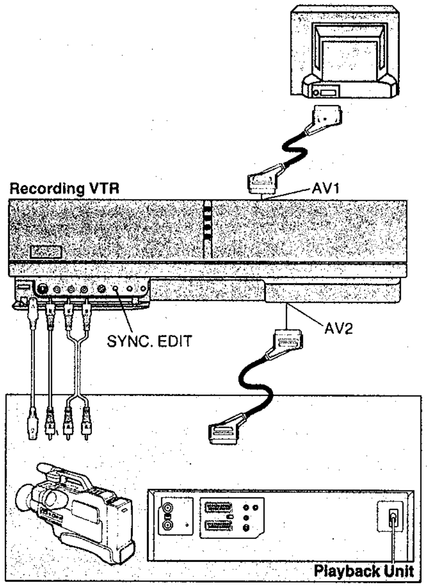
- Connect the AV1 socket on this VTR to the TV.
- Connect the AV2 socket or the AUDIO/VIDEO/S-VIDEO IN (AV3) sockets on this VTR to the playback unit.
- Select A2 or A3 by pressing ∧ ∨ on this VTR.

A2: Through the AV2 socket
A3: Through the AV3 sockets on front panel
Set **INPUT SELECT** on this VTR.
S-VIDEO: Through the S-VIDEO IN and AUDIO IN sockets
LINE: Through the VIDEO IN and AUDIO IN sockets

- Set **EDIT MODE** on this VTR to RECORDER.
- Control is performed by the respective units.

Preparation

- Make the necessary connections.
- Insert a recorded cassette into the playback unit, and a cassette with an intact erasure prevention tab into the recording VTR.
- Confirm that the TV is on and the VTR viewing channel is selected.



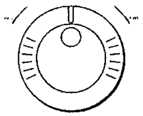
Assembly Editing

Operations

1 Press **PAUSE/STILL** on the recording VTR.

PAUSE/STILL

2 Search for the end of the previous recording.



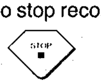
3 Press **REC** to set for the new recording.

4 Start playback on the playback unit.

5 Press **PAUSE/STILL** again to start the new recording.

PAUSE/STILL

6 Press **STOP** to stop recording.



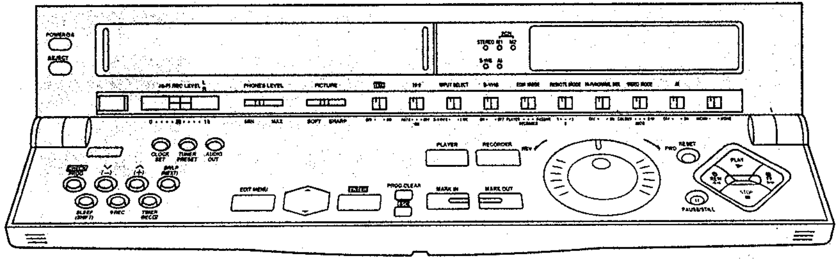
Synchronized Editing

By connecting a VTR or movie camera with synchronized editing capability to this VTR using a synchro connection cord (optional), it is possible to synchronize the playback start and stop of the playback unit with the recording start and stop of this VTR.

1 Put the recording VTR into the recording pause mode by pressing **REC** and **PAUSE/STILL**.

2 Put the playback unit into the still playback mode at the point where editing is to begin.

3 Press **PAUSE/STILL** on the recording VTR.
- The playback unit switches over to the playback mode, and copying begins automatically.

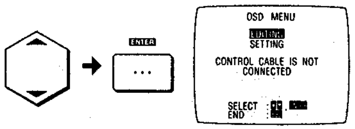


Insert Editing, AV Insert Editing and Audio Dubbing

Operations **On Screen Display**

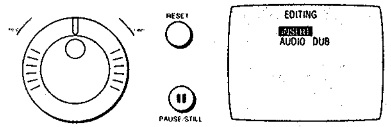
1 Press **EDIT MENU**.

2 Select **EDITING**.



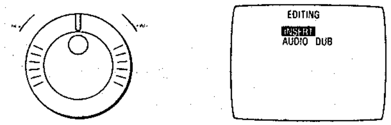
OSD MENU
EDITING
SETTING
CONTROL CABLE IS NOT CONNECTED
SELECT :
END :

3 Press **PAUSE/STILL** and search for the edit end point, and press **RESET**.
- It is not required for audio dubbing to search for the edit end point and reset.



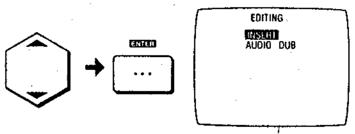
EDITING
INSERT
AUDIO DUB

4 Search for the edit start point.



EDITING
INSERT
AUDIO DUB

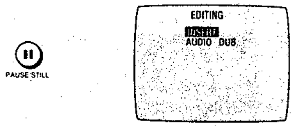
5 Select **INSERT** or **AUDIO DUB**.
- AV insert editing is selected if both **AUDIO DUB** and **INSERT** are selected.
- If once selected, Insert or Audio Dubbing mode is still active even if the On Screen Display disappears by pressing **EDIT MENU**.



EDITING
INSERT
AUDIO DUB

6 Start playback on the playback unit.

7 Press **PAUSE/STILL**.
- Editing begins.
- Insert and AV insert editing will finish when the counter reaches 0:00.00.
- Press **STOP** to stop audio dubbing.



EDITING
INSERT
AUDIO DUB

SECTION 2
ADJUSTMENT PROCEDURES

2-1. DISASSEMBLY METHOD

2-1-1. DISASSEMBLY FLOW CHART

This flow chart indicates disassembly steps of the cabinet parts and the circuit boards in order to find the necessary items for servicing.
When reassembling, perform the steps in the reverse order.

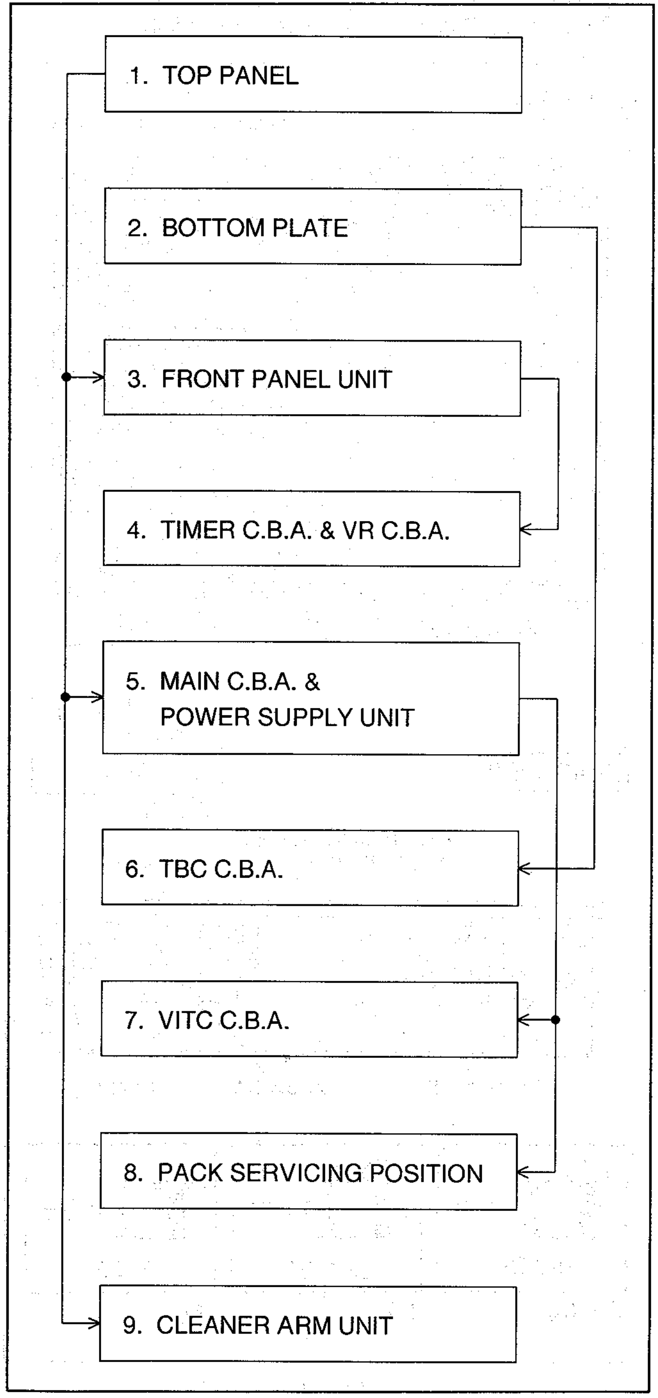

1. TOP PANEL
2. BOTTOM PLATE
3. FRONT PANEL UNIT
4. TIMER C.B.A. & VR C.B.A.
5. MAIN C.B.A. & POWER SUPPLY UNIT
6. TBC C.B.A.
7. VITC C.B.A.
8. PACK SERVICING POSITION
9. CLEANER ARM UNIT

Fig. D1

2-1-2. DETAIL OF DISASSEMBLY METHOD

1. REMOVAL OF THE TOP PANEL

Remove...... 4 Screws (A)

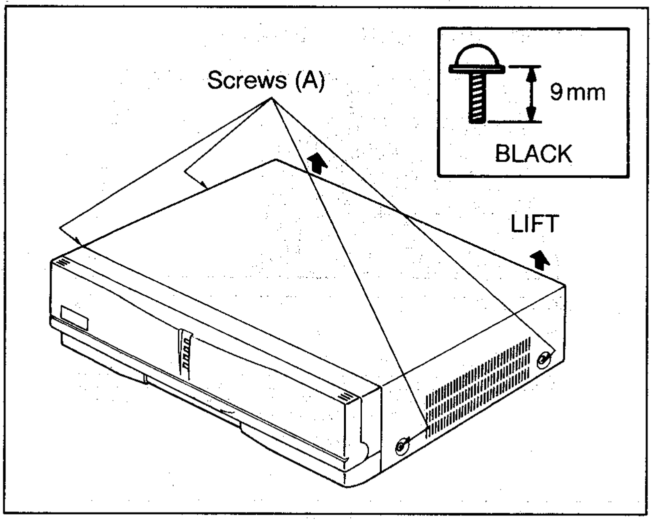

Screws (A)
9mm
BLACK
LIFT

Fig. D2

2. REMOVAL OF THE BOTTOM PLATE

Remove...... 6 Screws (B)

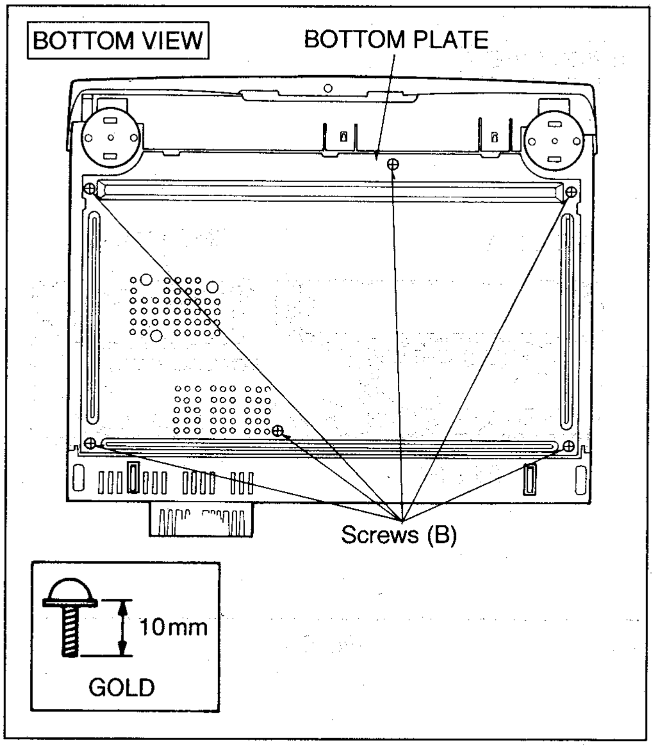

BOTTOM VIEW
BOTTOM PLATE
Screws (B)
10mm
GOLD

Fig. D3

3. REMOVAL OF THE FRONT PANEL UNIT

Remove...... Screws (C)
Unlock .... 8 Tabs (D)

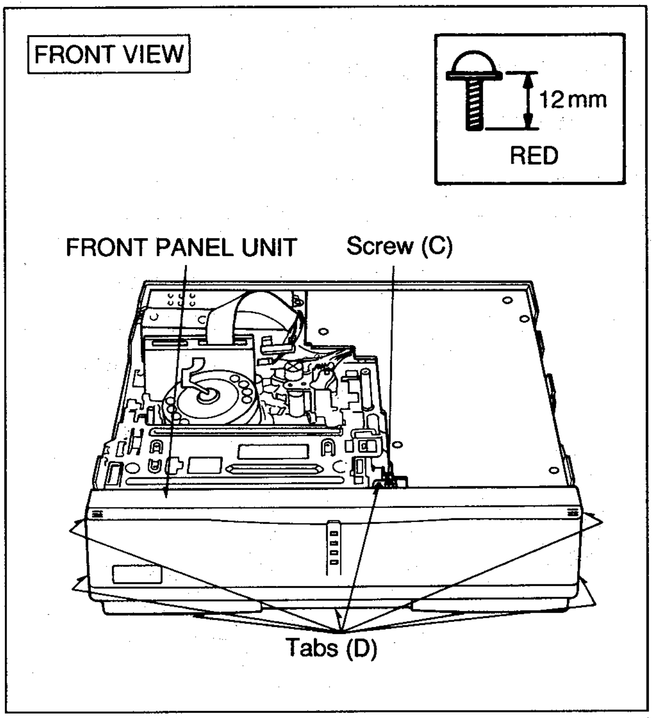

FRONT VIEW
12mm
RED
FRONT PANEL UNIT
Screw (C)
Tabs (D)

Fig. D4

4. REMOVAL OF THE TIMER C.B.A. & THE VR C.B.A.

Unlock .... 9 Tabs (F)

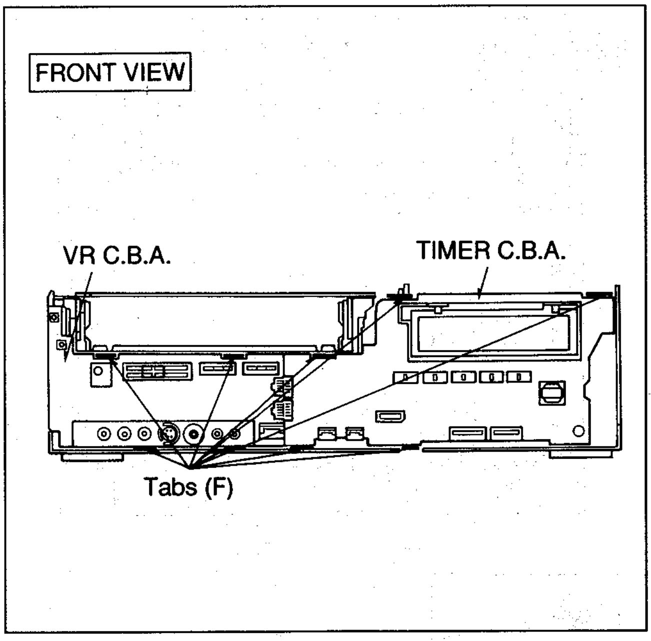

FRONT VIEW
VR C.B.A.
TIMER C.B.A.
Tabs (F)

Fig. D5

5. REMOVAL OF THE MAIN C.B.A. & THE POWER SUPPLY UNIT

REMOVAL OF THE MAIN C.B.A.

Remove...... 3 Screws (G)
Remove...... 2 Screws (H)
Unlock .... Tab (I)

REMOVAL OF THE POWER SUPPLY UNIT

Remove...... 2 Screws (J)
Remove...... Screws (K)
Unlock .... 2 Screws (L) and The HEAT SINK COVER
Remove...... Screw (M) and The HEAT SINK

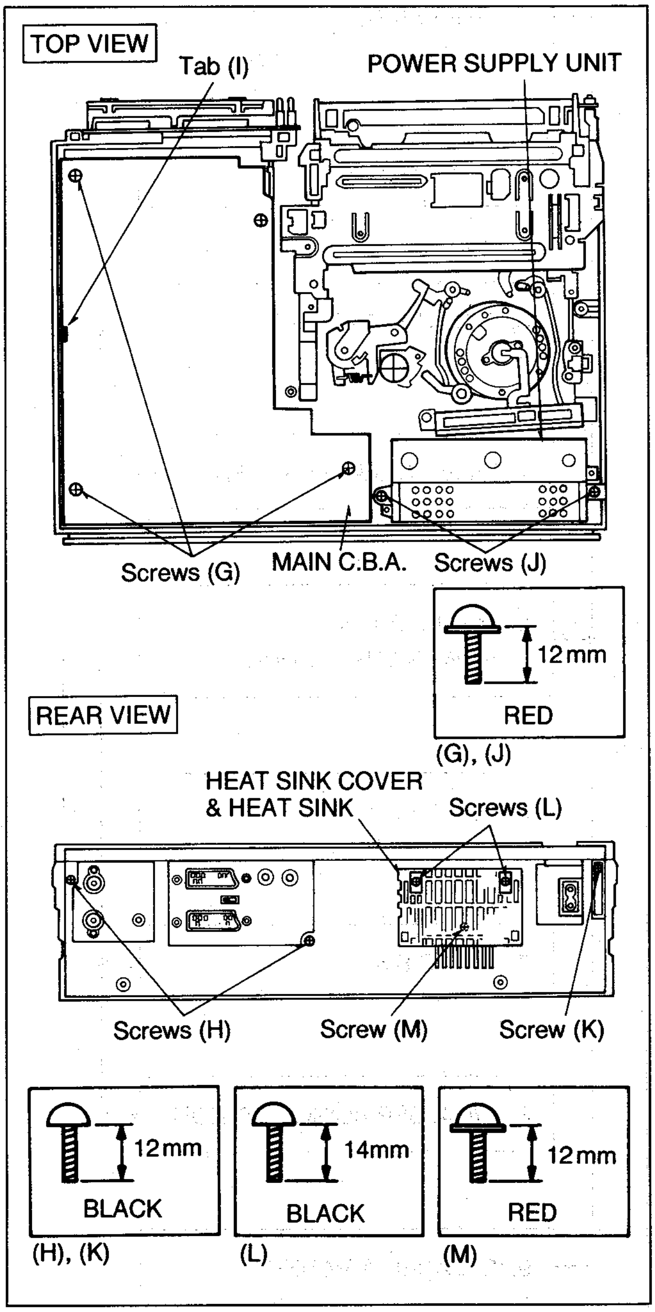

TOP VIEW
Tab (I)
POWER SUPPLY UNIT
Screws (G)
MAIN C.B.A.
Screws (J)
12mm
RED
(G), (J)
REAR VIEW
HEAT SINK COVER
& HEAT SINK
Screws (L)
Screws (H)
Screw (M)
Screw (K)
12mm
BLACK
(H), (K)
14mm
BLACK
(L)
12mm
RED
(M)

Fig. D6

6. REMOVAL OF THE TBC C.B.A.

Remove...... 4 Screws (N)

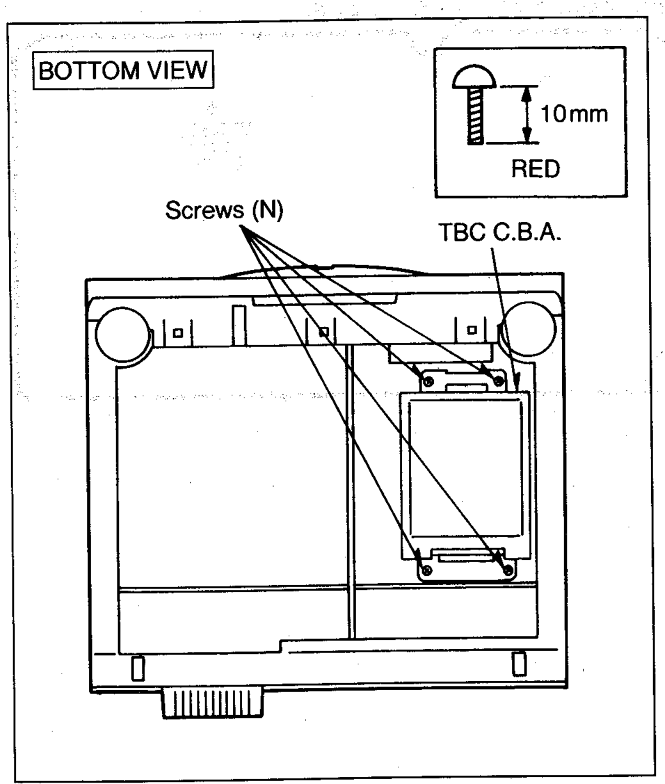


Fig. D7

7. REMOVAL OF THE VITC C.B.A.

Unlock .... VITC HOLDER (O)

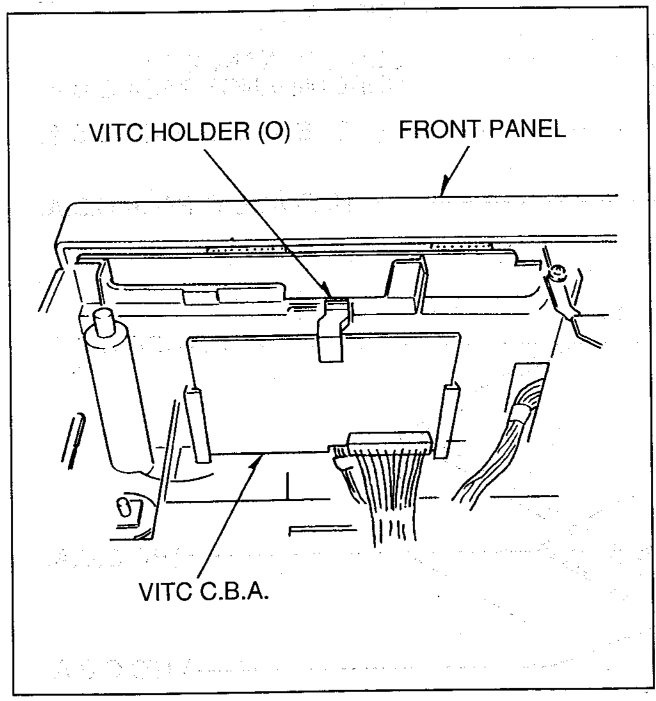


Fig. D8

8. PACK SERVICING POSITION

CAUTION:
Confirm the isolation between Mechanical Chassis and Main C.B.A. before connecting Main AC.

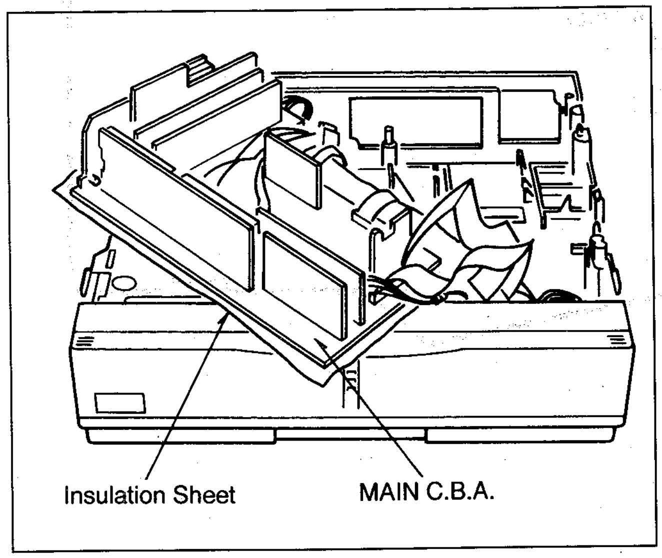


Fig. D9

9. REMOVAL OF THE CLEANER ARM UNIT

1. Unlock the locking portion (P).
2. Pull up the Cleaner Arm Unit.

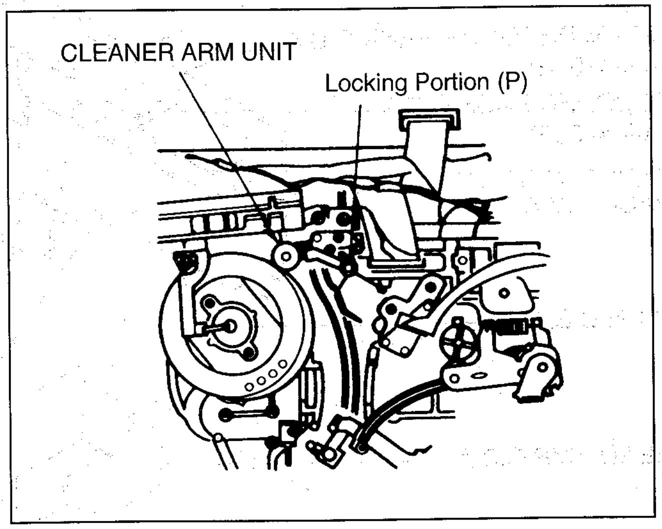


Fig. D10

2-2. MECHANICAL ADJUSTMENT PROCEDURES

The mechanical chassis of this model is the K Mechanical Chassis.
Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VSD9402M632)

CAUTIONS:

To make a Adjustment Mode for Tape interchangeability, connect a Jumper wire which has been cut as shown in Fig. M1.
(Auto Tracking is turned off)
After finishing the adjustment, disconnect the jumper wire.

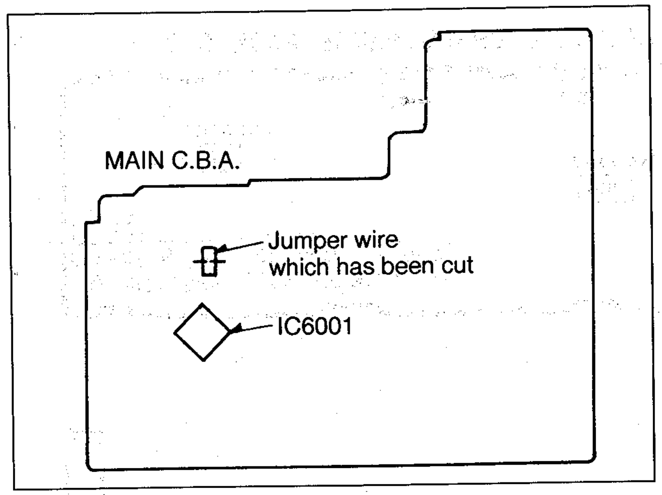


Fig. M1

2-3. DISASSEMBLY PROCEDURES OF MECHANISM

The mechanical chassis of this model is the K Mechanical Chassis.
Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VSD9402M632)

2-4. ASSEMBLY PROCEDURES OF MECHANISM

The mechanical chassis of this model is the K Mechanical Chassis.
Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VSD9402M632)

2-5. MAINTENANCE

2-5-1. REGULAR MAINTENANCE

The purpose of periodic maintenance is to preserve the functioning of this machine throughout its useful life. The user or service dealer should perform these maintenance regularly to ensure that maximum utility is obtained from the machine.

The VCR is a complicated place of equipment. It contains many belts, rollers, heads etc., which become worn, and deterlorate as time goes by, causing trouble. Dust and dirt will also impede the proper functioning of the machine. In light of this, it is very important that overall maintenance be done according to the maintenance chart to maintain the functions of the VCR, and to avoid accidental problems. This maintenance should also be performed after any repairs are done on the equipment.

The VCR used for business applications requires particular attention for several reasons. The installation conditions and applications are not always the best. Long use times, or poor environmental conditions may adversely affect the lifespan and performance of the machine. Regular maintenance assures that the purchaser obtains the maximum value for his expenditure. Accordingly, the necessity of regular maintenance should be fully explained at the time of sale, as well as during after-sale repairs.

2-5-2. M

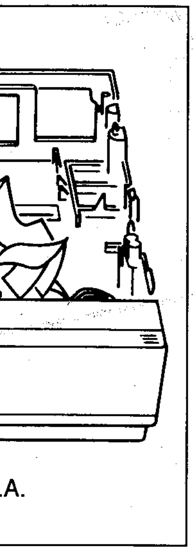
The follo
the life o

Ref. No. IN P/L	
———	T
20(1)	A
70(1)	C
71(1)	L
60(1)	S
61(1)	T
105(2)	C
106(2)	C
49(1)	F
15(1)	I
52(1)	
113(2)	

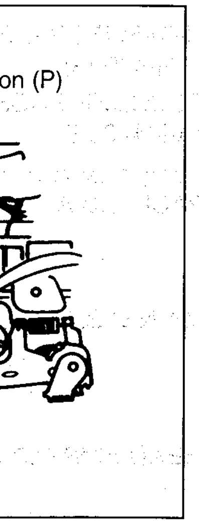
✻ NOTE

Symbol
●
◎
△
▲
×

ical Chassis and
C.



NIT



2-2. MECHANICAL ADJUSTMENT PROCEDURES

The mechanical chassis of this model is the K Mechanical Chassis.
Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VSD9402M632)

CAUTIONS:

To make a Adjustment Mode for Tape interchangeability, connect a Jumper wire which has been cut as shown in Fig. M1.
(Auto Tracking is turned off)
After finishing the adjustment, disconnect the jumper wire.

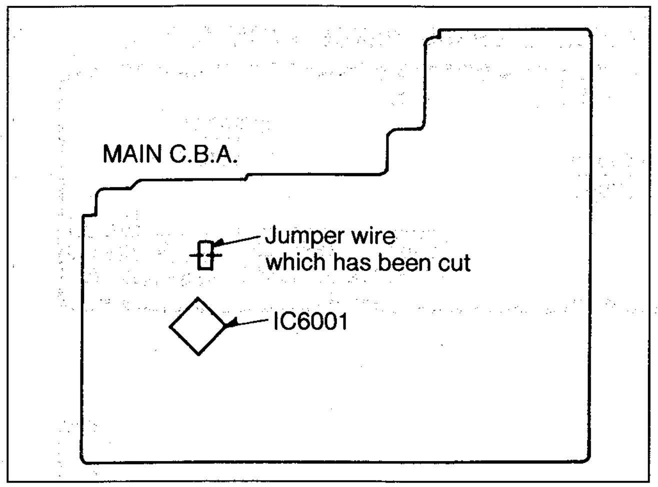


Fig. M1

2-3. DISASSEMBLY PROCEDURES OF MECHANISM

The mechanical chassis of this model is the K Mechanical Chassis.
Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VSD9402M632)

2-4. ASSEMBLY PROCEDURES OF MECHANISM

The mechanical chassis of this model is the K Mechanical Chassis.
Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VSD9402M632)

2-5. MAINTENANCE

2-5-1. REGULAR MAINTENANCE

The purpose of periodic maintenance is to preserve the functioning of this machine throughout its useful life. The user or service dealer should perform these maintenance regularly to ensure that maximum utility is obtained from the machine.

The VCR is a complicated place of equipment. It contains many belts, rollers, heads etc., which become worn, and deterlorate as time goes by, causing trouble. Dust and dirt will also impede the proper functioning of the machine. In light of this, it is very important that overall maintenance be done according to the maintenance chart to maintain the functions of the VCR, and to avoid accidental problems. This maintenance should also be performed after any repairs are done on the equipment.

The VCR used for business applications requires particular attention for several reasons. The installation conditions and applications are not always the best. Long use times, or poor environmental conditions may adversely affect the lifespan and performance of the machine. Regular maintenance assures that the purchaser obtains the maximum value for his expenditure. Accordingly, the necessity of regular maintenance should be fully explained at the time of sale, as well as during after-sale repairs.

2-5-2. MAINTENANCE CHART

The following periodic maintenance is required to prolong the life of the machine.

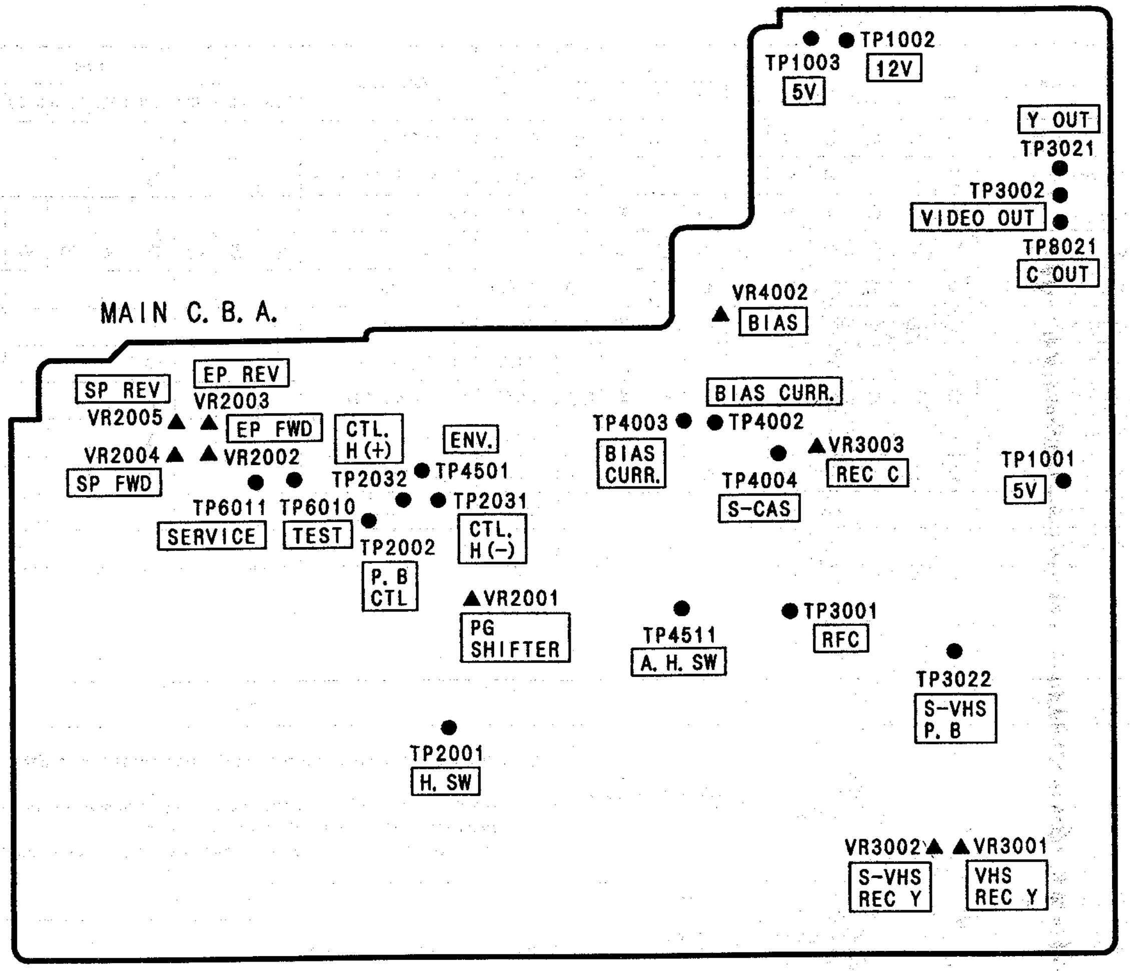
Ref. No. IN P/L	Parts Name	Hour									
		500	1000	1500	2000	2500	3000	3500	4000	4500	5000
———	Tape Transporter	●	●	●	●	●	●	●	●	●	●
20(1)	A/C Head U	●	●	●	●	●	●	●	◎	●	●
70(1)	Cylinder U	●	●	●	●	●	●	●	◎	●	●
71(1)	Upper Cylinder	●	◎	●	◎	●	◎	●	◎	●	◎
60(1)	Supply Reel Table U	●	●	●	●△	●	●	●	●△	●	●△
61(1)	Take-up Reel Tuble U	●	●	●	●△	●	●	●	●△	●	●△
105(2)	Capstan Housing U								◎		
106(2)	Capstan Roter U	●	●△	●	●△	●	●△	●	◎△	●	●△
49(1)	Pinch Arm U				◎				◎		
15(1)	Impedance Roller U	●	●	●	●	●	●	●	◎	●	●
52(1)	Tension Band U				◎				◎		
113(2)	Timing Belt				◎				◎		
63(1)	Supply Brake Arm U				◎				◎		
64(1)	Take-up Brake Arm U				◎				◎		
62(1)	Earth Plate								◎		
12(1)	FE Head	●	●	●	●	●	●	●	◎	●	●
127(2)	Mode Switch								◎		
108(2)	Main Cam Gear				×				×		
121(2)	Loading Motor U				◎				◎		
40(1)	Inclined Base (S) U				▲				▲		◎
41(1)	Inclined Base (T) U				▲				▲		◎
9(1)	Cleaner Arm U				◎				◎		
128(2)	SS Brake Base U				◎				◎		

✻ NOTE:

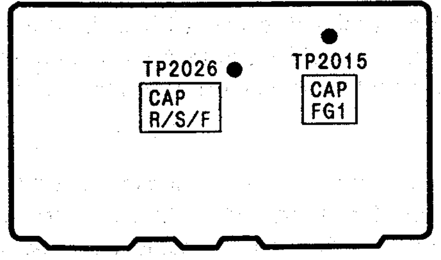
Symbol	Maintenance	Requirement	Remark
●	Cleaning	Ethyl-alcohol or Cleaning Liquid (Purchase locally)	Wipe dirt from the parts using soft cloth impregnated with Ethyl-Alcohol. Note: When cleaning rubber parts, avoid using excessive alcohol since it may accelerate deterioration of these parts. After cleaning with alcohol, wipe the alcohol quickly and thoroughly.
◎	Replacement	————	————
△	Lubrication	High Quality Spindle Oil (Purchase locally)	Supply one or two drops of oil.
▲	Greasing	Molytone Grease (MOR265)	Wipe the old grease and apply new grease.
×	Greasing	S.C.R. Grease (VFK0680)	Wipe the old grease and apply new grease.

LOCATION OF TEST POINTS & CONTROLS

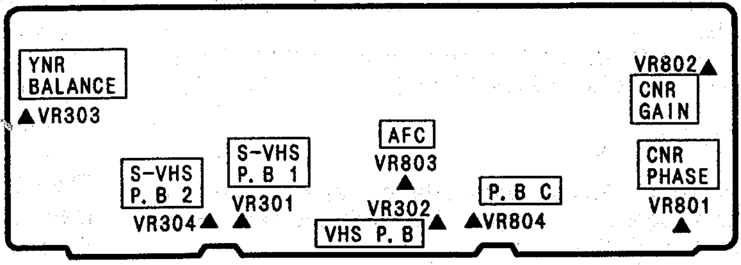
MAIN C. B. A.


TP1003
TP1002
5V
12V
Y OUT
TP3021
TP3002
VIDEO OUT
TP8021
C OUT
VR4002
BIAS
SP REV
EP REV
VR2003
VR2005
EP FWD
CTL. H(+)
ENV.
VR2004
VR2002
SP FWD
TP6011
TP6010
TP2032
TP4501
TP2031
SERVICE
TEST
TP2002
CTL. H(−)
P. B CTL
BIAS CURR.
TP4003
TP4002
VR3003
BIAS CURR.
TP4004
REC C
S-CAS
TP1001
5V
VR2001
PG SHIFTER
TP4511
A. H. SW
TP3001
RFC
TP3022
S-VHS P. B
TP2001
H. SW
VR3002
VR3001
S-VHS REC Y
VHS REC Y

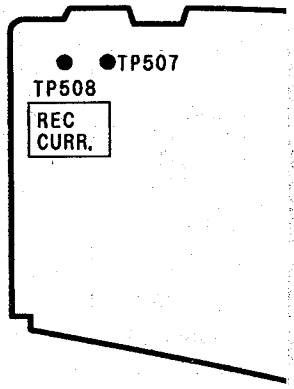
CAPSTAN DRIVE PACK C. B. A.


TP2026
CAP R/S/F
TP2015
CAP FG1

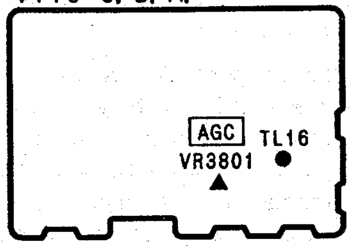
LUMINANCE & CHROMINANCE PACK C. B. A.


YNR BALANCE
VR303
VR802
CNR GAIN
S-VHS P. B 2
S-VHS P. B 1
AFC
VR803
CNR PHASE
VR304
VR301
VR302
P. B C
VR804
VR801
VHS P. B

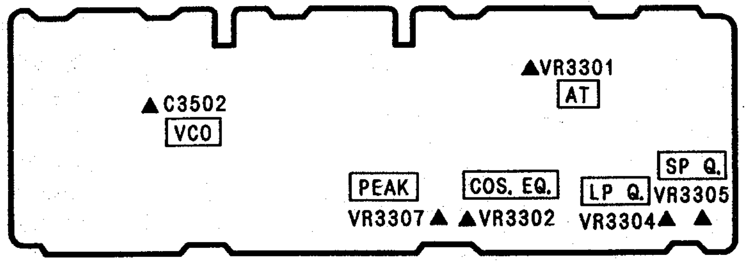
HEAD AMP C. B. A.


TP508
TP507
REC CURR.

VITC C. B. A.


AGC
VR3801
TL16

SUB LUMINANCE & CHROMINANCE PACK C. B. A.


VR3301
AT
C3502
VCO
SP Q.
PEAK
COS. EQ.
LP Q.
VR3305
VR3307
VR3302
VR3304

CIRCUIT BC

REC/RF AMP PAC

NICAM DECODEI
(AG-4700B)

DECODER PACK
(AG-4700E)

CAPSTAN DRIVE
PACK C.B.A.

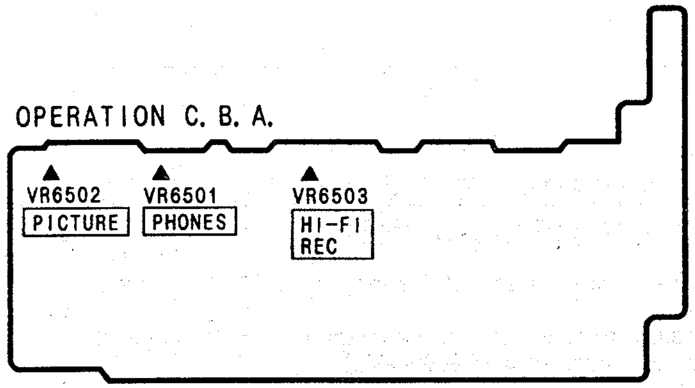
MAIN C.B.A.—

HEAD AMP C.B.A

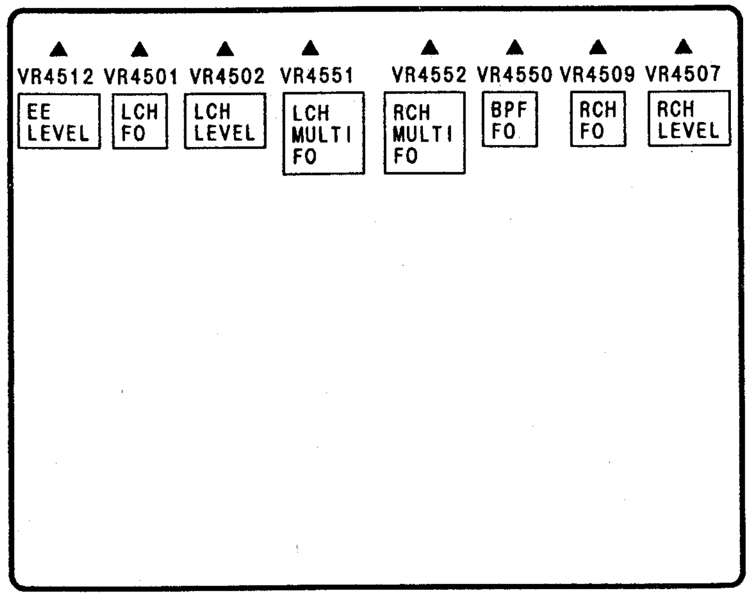
VR C.B.A.—

TIMER C.B.A.—

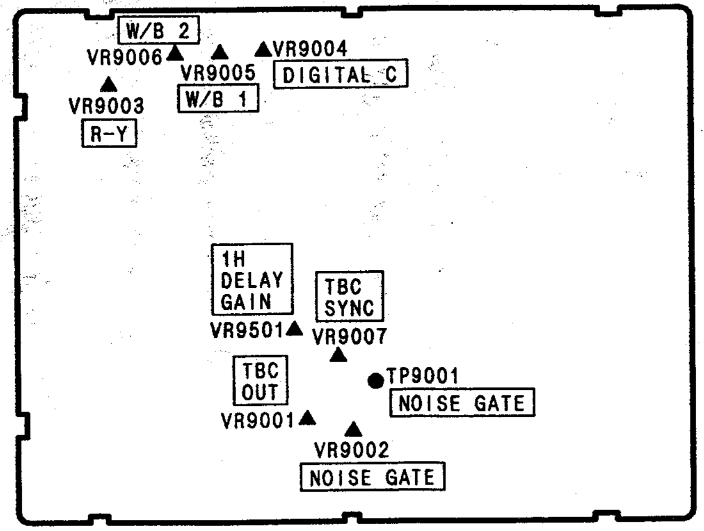
OPERATION C. B. A.


VR6502
PICTURE
VR6501
PHONES
VR6503
HI-FI REC

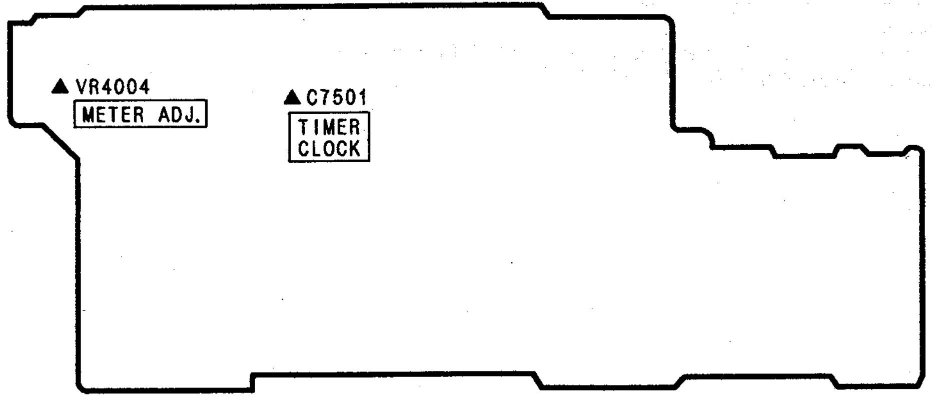
Hi-Fi AUDIO PACK C. B. A.


VR4512
EE LEVEL
VR4501
LCH FO
VR4502
LCH LEVEL
VR4551
LCH MULTI FO
VR4552
RCH MULTI FO
VR4550
BPF FO
VR4509
RCH FO
VR4507
RCH LEVEL

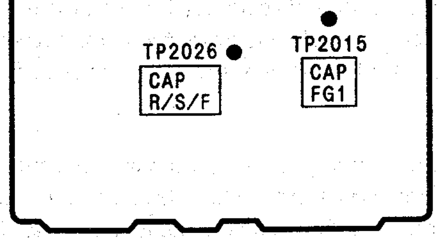
TBC C. B. A.


W/B 2
VR9006
VR9004
VR9005
DIGITAL C
VR9003
W/B 1
R-Y
1H DELAY GAIN
TBC SYNC
VR9501
VR9007
TBC OUT
TP9001
NOISE GATE
VR9001
VR9002
NOISE GATE

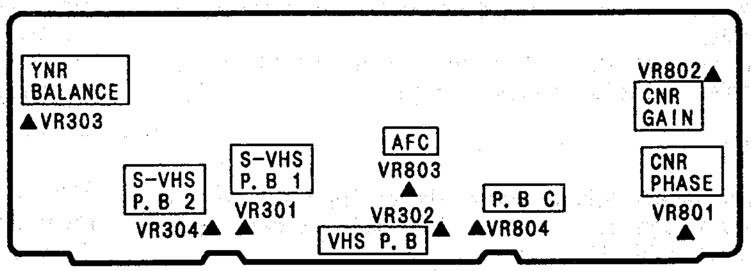
TIMER C. B. A.


VR4004
METER ADJ.
C7501
TIMER CLOCK

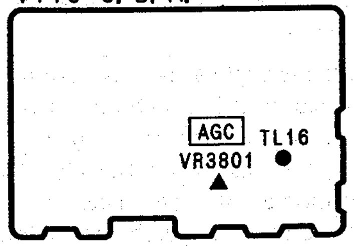
CAPSTAN DRIVE PACK C. B. A.


TP2026
CAP R/S/F
TP2015
CAP FG1

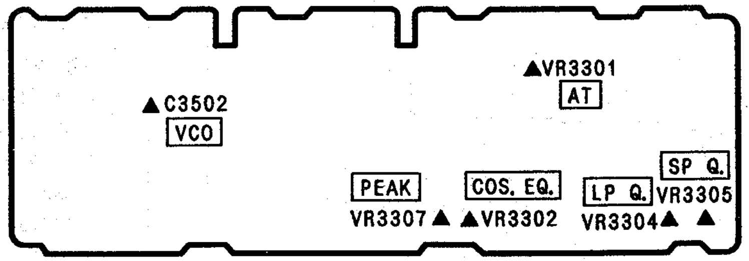
LUMINANCE & CHROMINANCE PACK C. B. A.


YNR BALANCE
VR303
S-VHS P. B 2
VR304
S-VHS P. B 1
VR301
AFC
VR803
VR302
VHS P. B
P. B C
VR804
VR802
CNR GAIN
CNR PHASE
VR801

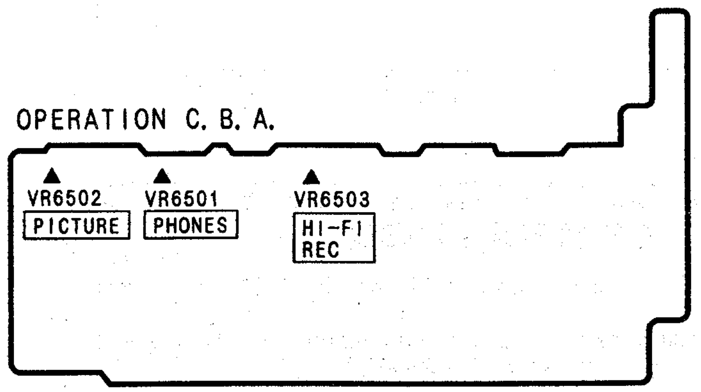
VITC C. B. A.

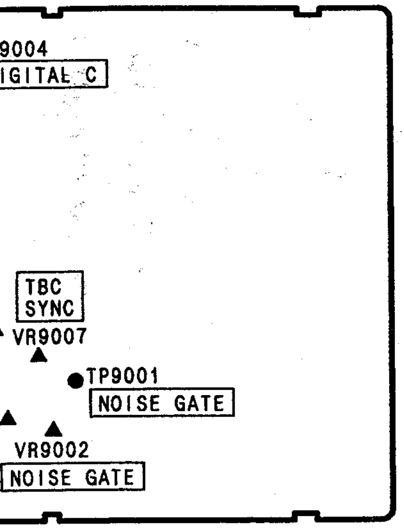

AGC
VR3801
TL16

SUB LUMINANCE & CHROMINANCE PACK C. B. A.

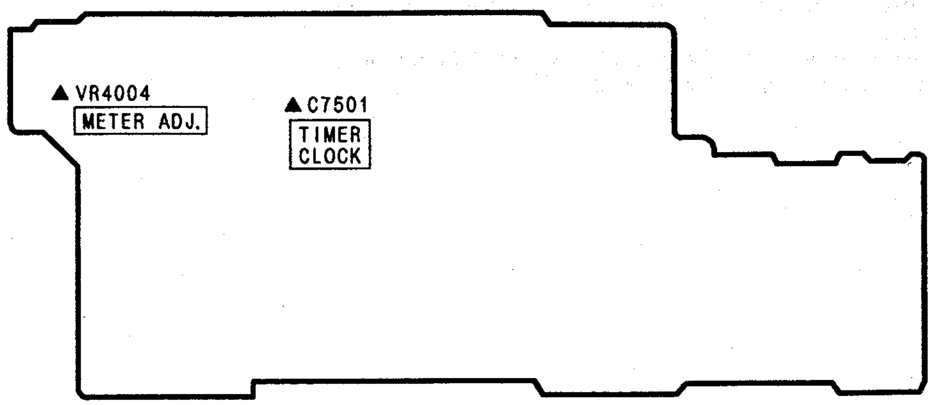

C3502
VCO
VR3301
AT
PEAK
VR3307
COS. EQ.
VR3302
LP Q.
VR3304
SP Q.
VR3305

OPERATION C. B. A.

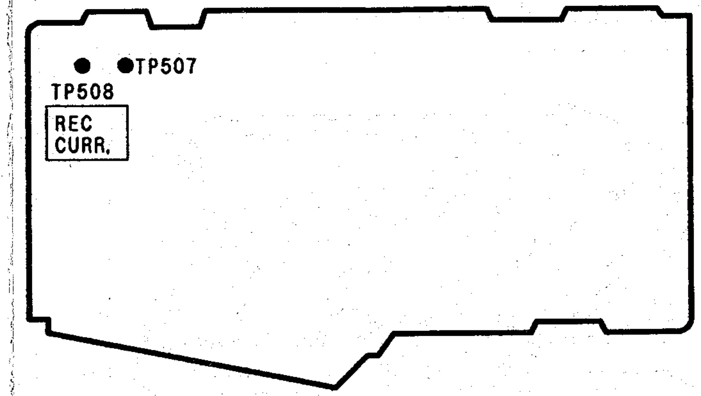

VR6502
PICTURE
VR6501
PHONES
VR6503
HI-FI REC


9004
IGITAL C
TBC SYNC
VR9007
TP9001
NOISE GATE
VR9002
NOISE GATE

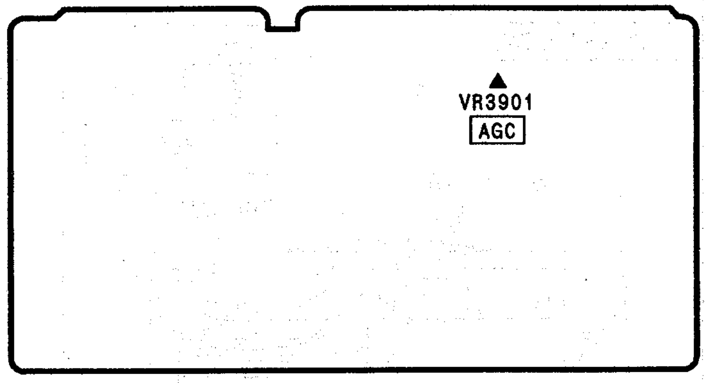
TIMER C. B. A.


VR4004
METER ADJ.
C7501
TIMER CLOCK

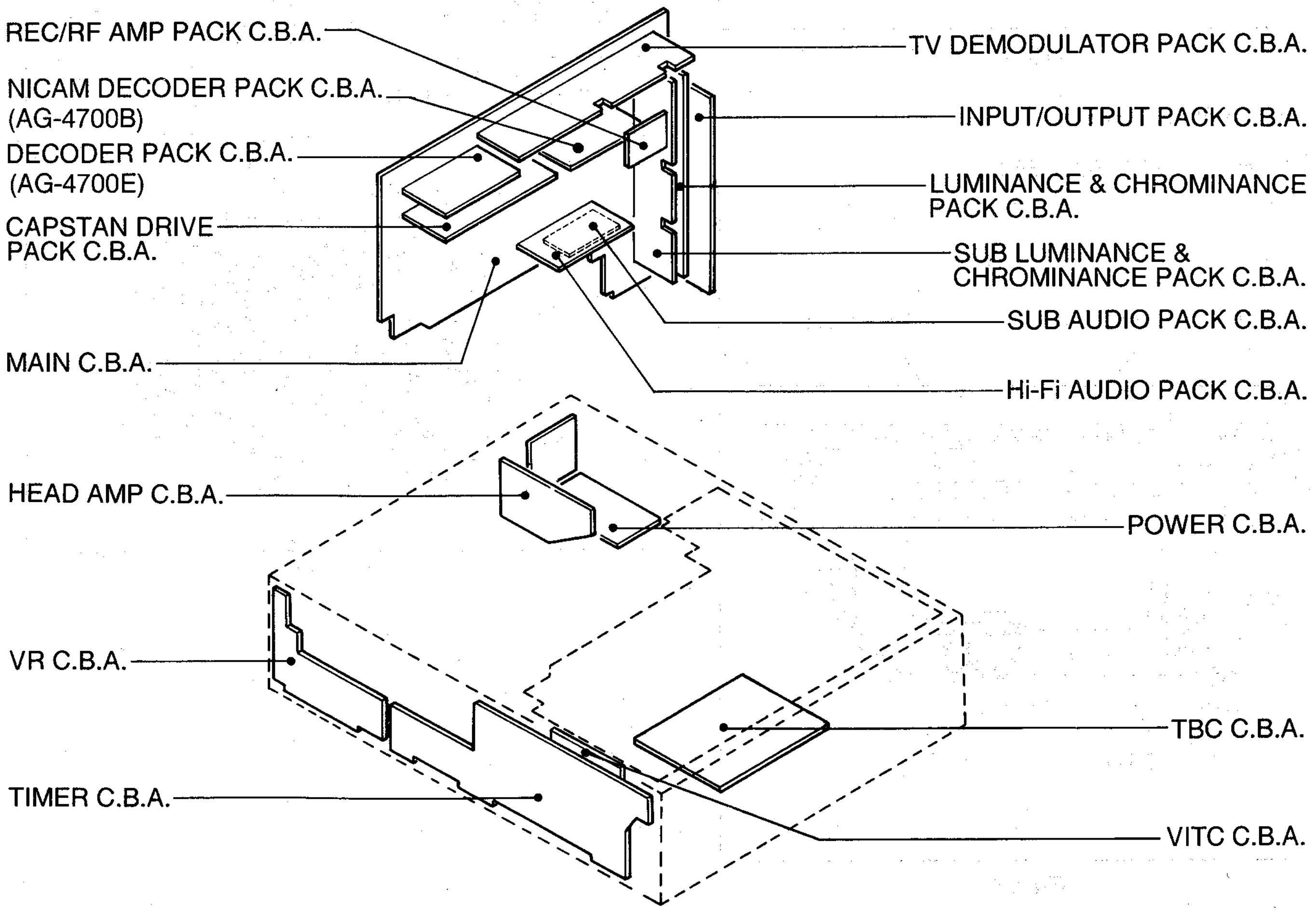
HEAD AMP C. B. A.


TP507
TP508
REC CURR.

INPUT/OUTPUT PACK C. B. A.



CIRCUIT BOARD LAYOUT


REC/RF AMP PACK C.B.A.
NICAM DECODER PACK C.B.A. (AG-4700B)
DECODER PACK C.B.A. (AG-4700E)
CAPSTAN DRIVE PACK C.B.A.
MAIN C.B.A.
TV DEMODULATOR PACK C.B.A.
INPUT/OUTPUT PACK C.B.A.
LUMINANCE & CHROMINANCE PACK C.B.A.
SUB LUMINANCE & CHROMINANCE PACK C.B.A.
SUB AUDIO PACK C.B.A.
Hi-Fi AUDIO PACK C.B.A.
HEAD AMP C.B.A.
POWER C.B.A.
VR C.B.A.
TBC C.B.A.
TIMER C.B.A.
VITC C.B.A.

2-6. ELECTRICAL ADJUSTMENT PROCEDURES

This section provides complete adjustment procedures required for electric circuits of VHS Video Cassette Recorders.

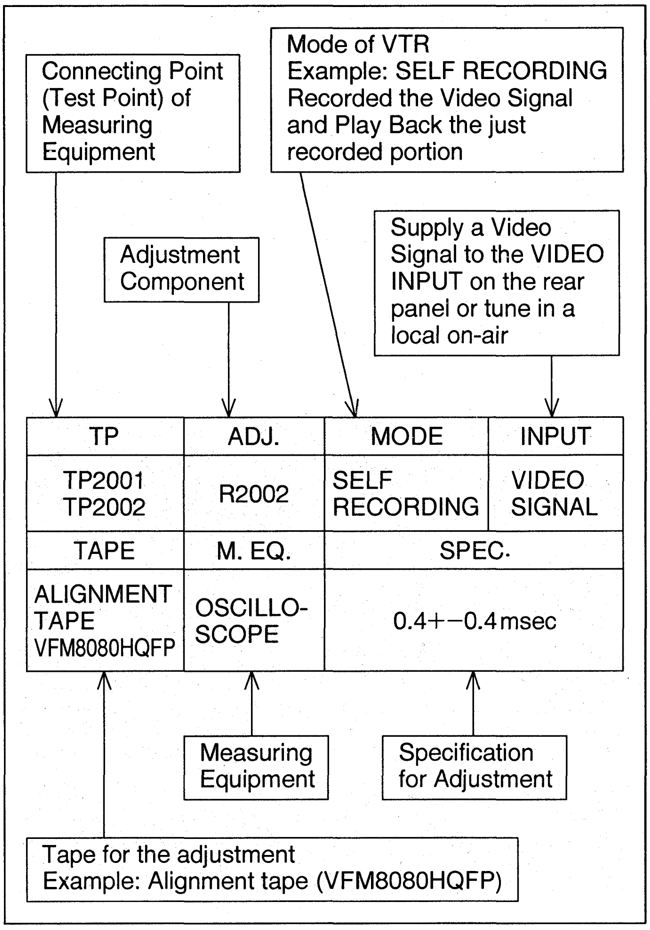
2-6-1. TEST EQUIPMENT
To perform electrical adjustments following equipment is required.

1. Dual-Trace Oscilloscope. (More than 35MHz)
   Voltage Range: 0.005-5V/div
   Frequency Range: DC-35MHz
   Probes: 10:1 OR 1:1
2. Frequency Counter.
   Frequency Range: 0-10MHz
   Probes: 1:1
3. Universal Counter.
4. Digital Volt Meter. (D.V.M.)
5. Video Sweep Generator.
6. Sine Wave Generator.
7. Video Pattern Generator.
8. VHS Alignment Tape. (VFM8080HQFP)
9. VHS Blank Tape.
10. Monitor.
11. Plastic Tip Driver.
12. DC Power Supply.

2-6-2. PREPARATION
During adjustment, set each selector as follows: when no indication in the procedure.

NORMAL/Y/C/TEST SIGNAL SW (REAR)...NORMAL
VIDEO MODE SW..AUTO
AI SW...ON
EDIT MODE SW...RECORDER
HIFI/NORMAL MIX SW ....OFF
PICTURE VR..CENTRE FIX
HIFI REC LEVEL VR ....CENTRE FIX
CHANNEL...A1/A2/A3
(Set to signal input terminal number)
TBC SW..OFF
16:9 SW..AUTO
AV3 INPUT SELECT SW ....S-VIDEO/LINE
(Set to signal input terminal)
S-VHS SW..ON
NICAM/MONO SW (AG-4700B)...................NICAM

2-6-3. HOW TO READ ADJUSTMENT PROCEDURES


Mode of VTR
Example: SELF RECORDING
Recorded the Video Signal and Play Back the just recorded portion
Connecting Point (Test Point) of Measuring Equipment
Supply a Video Signal to the VIDEO INPUT on the rear panel or tune in a local on-air
Adjustment Component
Measuring Equipment
Specification for Adjustment
Tape for the adjustment
Example: Alignment tape (VFM8080HQFP)

TP	ADJ.	MODE	INPUT
TP2001 TP2002	R2002	SELF RECORDING	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE VFM8080HQFP	OSCILLO-SCOPE	0.4+−0.4msec	

Fig. E1

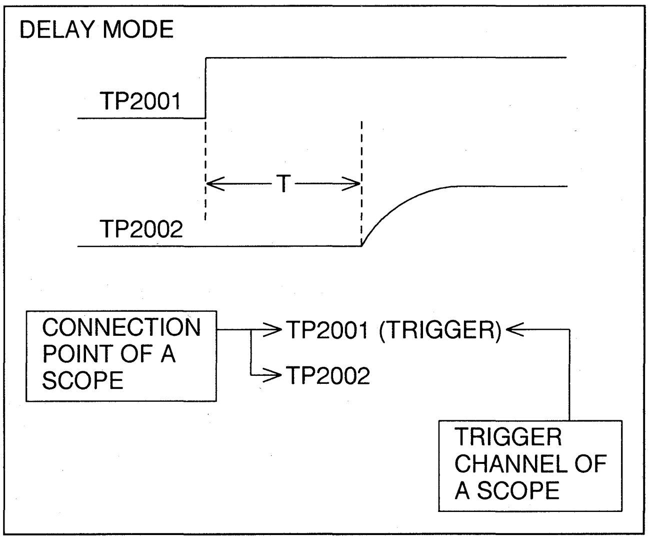

DELAY MODE
TP2001
T
TP2002
CONNECTION POINT OF A SCOPE
TP2001 (TRIGGER)
TP2002
TRIGGER CHANNEL OF A SCOPE

Fig. E2

SERVO SECTION

2-6-4. PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2001 (TEST LAND) VIDEO OUT	VR2001	PLAYBACK	
TAPE	M. EQ.	SPEC.	
ALIGNMENT TAPE VFM8080HQFP	OSCILLO-SCOPE	7.0+−1.0 (H)	

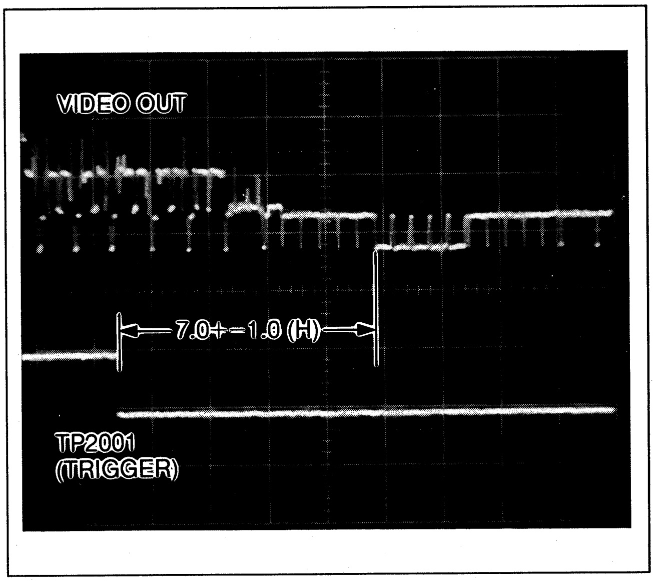


Fig. E3

2-6-5. SLOW TRACKING ADJUSTMENT

TP	ADJ.	MODE	INPUT
MONITOR SCREEN	VR2004 (SP) VR2002 (LP)	(SELF RECORDED) SLOW	CCIR PATTERN
TAPE	M. EQ.	SPEC.	
BLANK TAPE	MONITOR TV	Noise bar on the monitor screen is minimized. (Shown in Fig. E5)	

Note: 1. Before this adjustment, connect a jumper wire which has been cut as shown in Fig. E4.
2. After connecting a jumper wire, press the TRACKING (+) and (−) buttons on the Remote Controller simultaneously to set the tracking to centre fix position.
3. After this adjustment, disconnect a jumper wire.

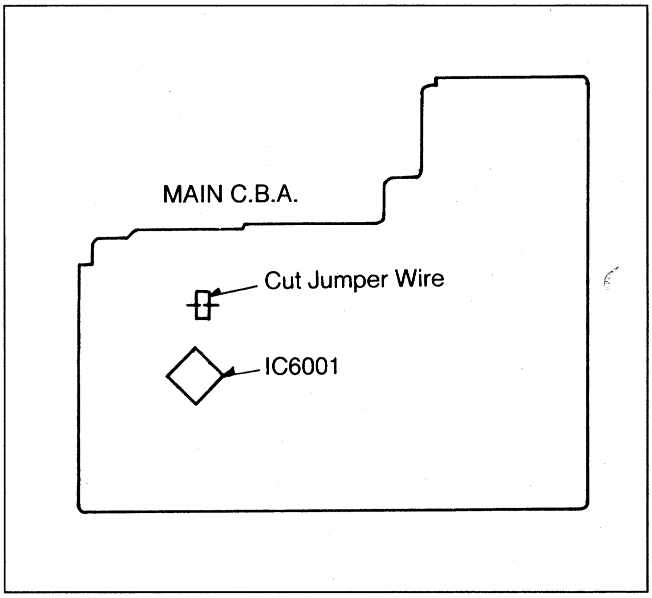


Fig. E4

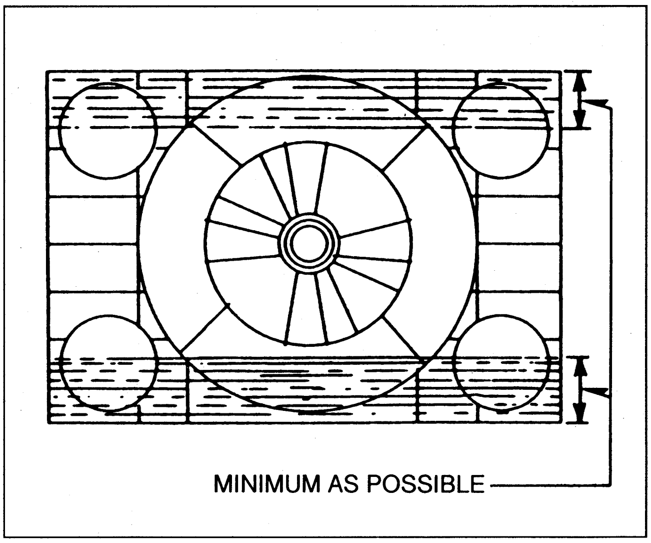


Fig. E5

2-6-6. REVERSE SLOW TRACKING ADJUSTMENT

TP	ADJ.	MODE	INPUT
MONITOR SCREEN	VR2005 (SP) VR2003 (LP)	(SELF RECORDED) REV SLOW	CCIR PATTERN
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	MONITOR TV	Noise bar on the monitor screen is minimized. (Shown in Fig. E5)	

REV SLOW: REVERSE SLOW

Note: 1. Before this adjustment, connect a jumper which has been cut as shown in Fig. E4.
2. After connecting a jumper wire, press the TRACKING (+) and (−) buttons on the Remote Controller simultaneously to set the tracking to centre fix position.
3. After this adjustment, disconnect a jumper wire.

2-6-7. AUTO TRACKING GAIN ADJUSTMENT

TP	ADJ.	MODE	INPUT
PS3301-1	VR3301	STOP	SINEWAVE 4MHz/200mVp-p
TAPE	**M. EQ.**	**SPEC.**	
	SINEWAVE GENE./ D.V.M.	3.1+−0.1 (V)	

Note: 1. After connecting the Sinewave Generator to PS3303-2, set the signal level to 4MHz/200mVp-p.

LUMINANCE & CHROMINANCE SECTION

2-6-8. ARTIFICIAL PAL FREE RUN ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC802-9 (TL803)	VR803	STOP	
TAPE	**M. EQ.**	**SPEC.**	
	FREQUENCY COUNTER/ SINEWAVE GENERATOR	15735+−100 (Hz)	

Note: 1. Supply +5V DC to IC802-27 (TL802).
2. Turn VR803 to maximum frequency, then adjust VR803 until the specification.

2-6-9. RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP507 (HOT) TP508 (GND)	VR3001 (VHS Y) VR3002 (S-VHS Y) VR3003 (C)	SP RECORDING	PAL COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
S-VHS BLANK TAPE	OSCILLO-SCOPE	VHS Y : 110+−5 (mVp-p) S-VHS Y: 120+−5 (mVp-p) C : 28+−2 (mVp-p)	

Note: 1. Set the AI SW to OFF position.
2. When adjusting the S-VHS Luminance level, set the S-VHS SW to ON position.
3. Turn the VR3002 to eliminate the Luminance component.
4. Adjust the Chrominance level until the peak level of Cyan is 28+−2mVp-p.
5. Adjust the Luminance level until the peak level of V-SYNC tip is 120+−5mVp-p.
6. Set the S-VHS SW to OFF position.
7. Adjust the Luminance level until the peak level of V-SYNC tip is 110+−5mVp-p.

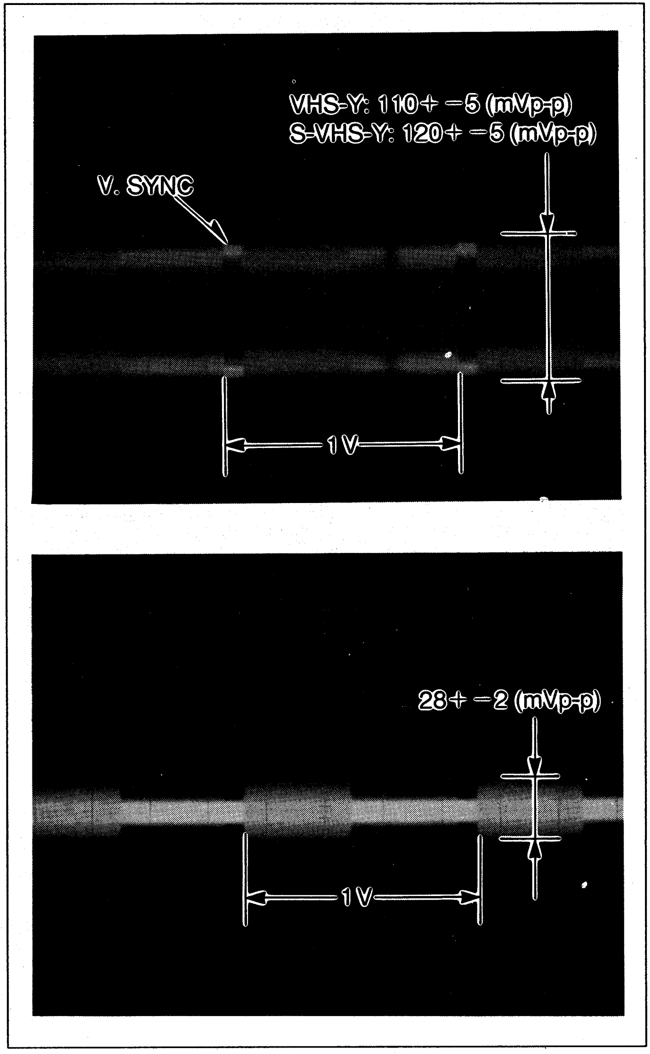
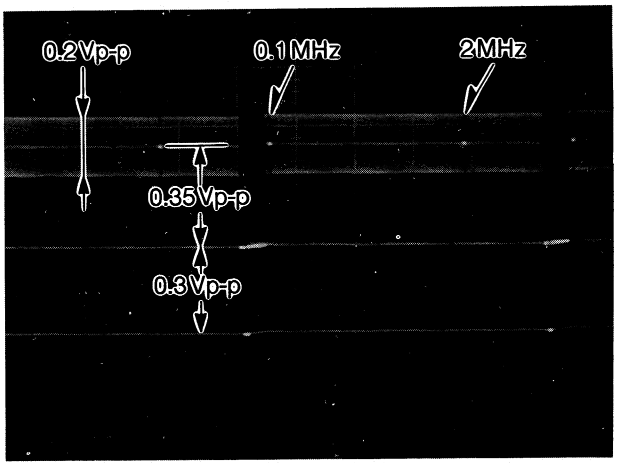


Fig. E6

2-6-10. VHS FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT	VR3305 (SP) VR3304 (LP)	SP/LP (SELF RECORDED) PLAYBACK	VIDEO SWEEP SIGNAL (Shown in Fig. E7)
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE/ VIDEO SWEEP GENERATOR	SP: 0+−1(dB) (90−110%) LP: −1+−1(dB) (80−100%)	

Note: 1. Set the Video Sweep Signal as shown in Fig. E7.
2. Set the AI and S-VHS SW to OFF position.
3. Set the VIDEO MODE SW to B/W position.



CONDITION: BURST SIGNAL OFF
75 ohm TERMINATED

Fig. E7

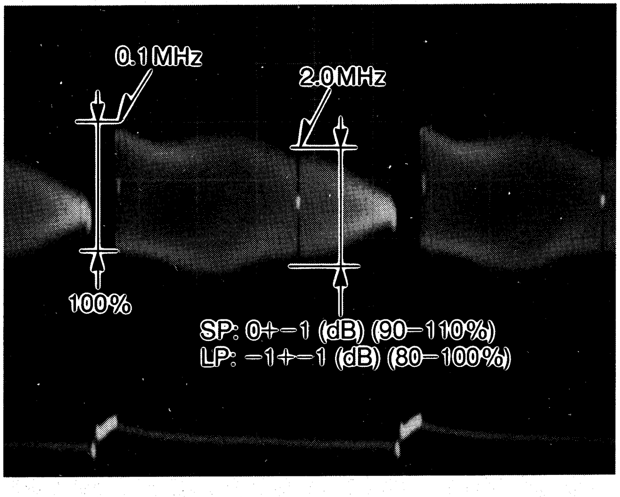
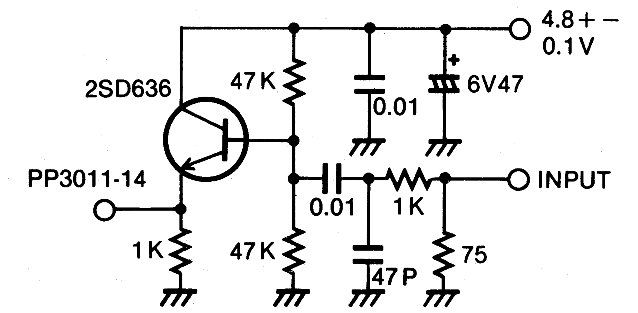


Fig. E8

2-6-11. RF PEAK FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
PP3011-18	VR3307	PLAYBACK	VIDEO SWEEP SIGNAL (PP3014-14)
TAPE	M. EQ.	SPEC.	
ALIGNMENT TAPE (VFM8080HQFP)	OSCILLO-SCOPE/ VIDEO SWEEP GENERATOR	SIGNAL LEVEL AT 7MHz PORTION IS MAXIMUM	

Note: 1. Connect the Service Circuit as shown in Fig. E9.
2. Disconnect P501 (from MAIN C.B.A. to HEAD AMP PACK C.B.A.).
3. Set VR3302 to centre position.
4. Connect a jumper wire between PP3011-5 and GND.
5. Set the Video Sweep Signal Generator (video signal only) as shown in Fig. E10.
6. Supply set up video sweep signal to PP3011-14 via Service Circuit.
7. Adjust VR3307 until the signal level at 7MHz portion is maximum as shown in Fig. E11.
8. After this adjustment, connect P501.



(Example)

75 ohm: ERDS2TJ750	0.01μ: ECCF1H104ZF
1Kohm: ERDS2TJ102	47P: ECCF1H470JC
47Kohm: ERD2TJ473	6V47μ: ECEA0JK470

Fig. E9

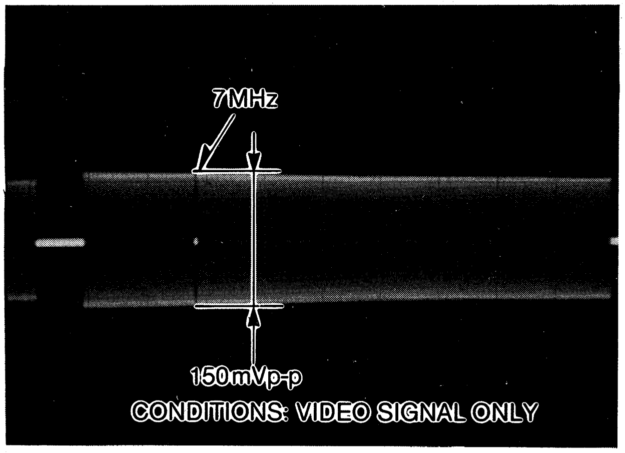


Fig. E10

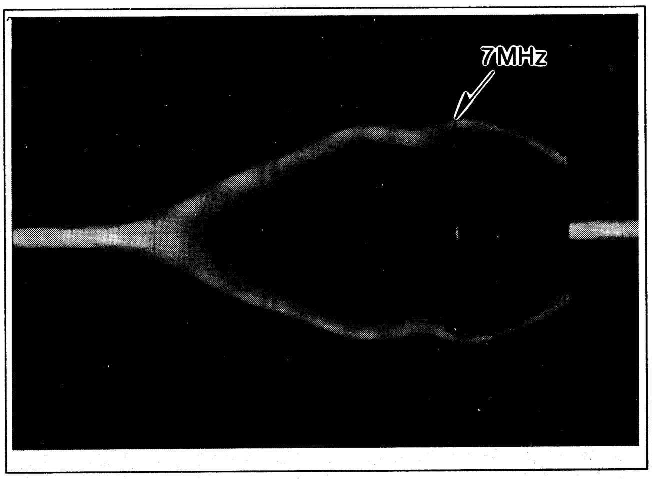
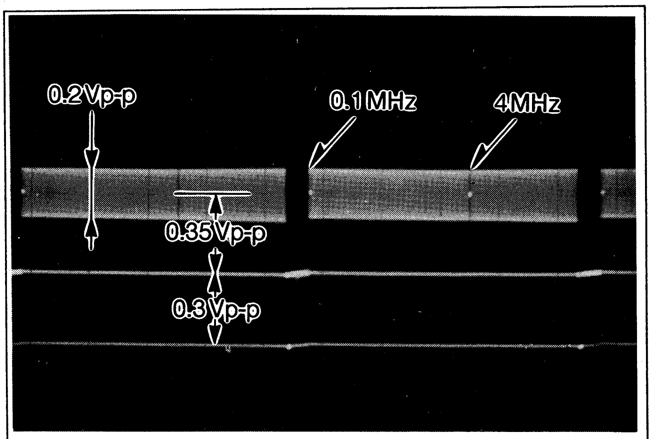


Fig. E11

2-6-12. S-VHS FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3021	VR3302 (SP)	SP (SELF RECORDED) PLAYBACK	VIDEO SWEEP SIGNAL (P3002-10)
TAPE	M. EQ.	SPEC.	
S-VHS BLANK TAPE	OSCILLO-SCOPE/ VIDEO SWEEP GENERATOR	SP: −4.5+−1(dB) (55−70%)	

Note: 1. Before this adjustment, RF PEAK ADJUSTMENT must be done.
2. Set the Video Sweep Signal as shown in Fig. E12.
3. Set the AI SW to OFF position.
4. Connect a jumper wire between PP3003-5 and GND.
5. After this adjustment, disconnect the jumper wire.



CONDITION: BURST SIGNAL OFF
75 ohm TERMINATED

Fig. E12

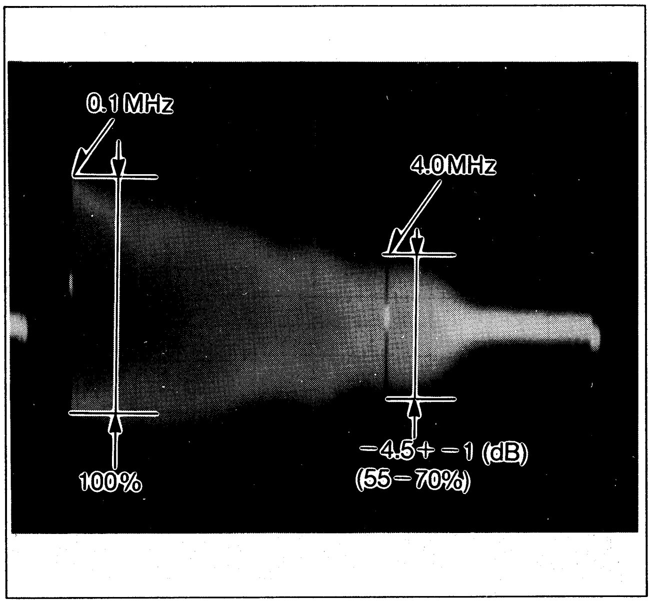


Fig. E13

2-6-13. VHS PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3021 (Y) TP8021 (C)	VR302 (Y) VR804 (C)	SP (SELF RECORDED) PLAYBACK	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	Y: 2.0+−0.1 (Vp-p) C: 1.1+−0.1 (Vp-p)	

Note: 1. Set the S-VHS SW to OFF position.

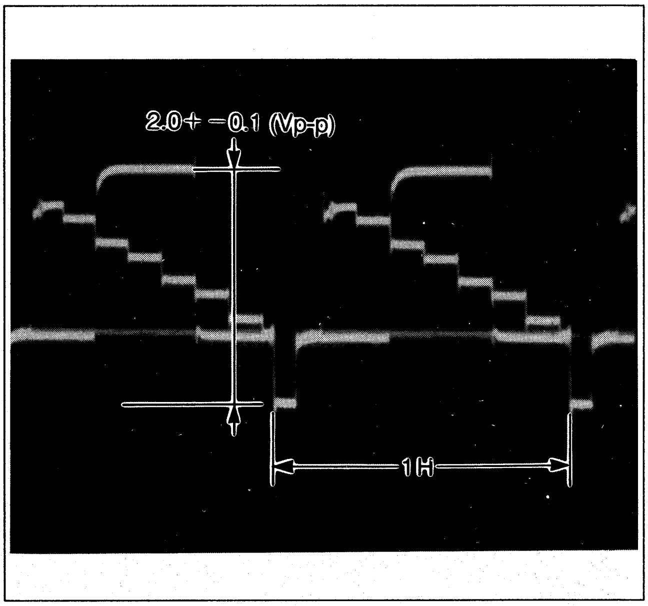


Fig. E14

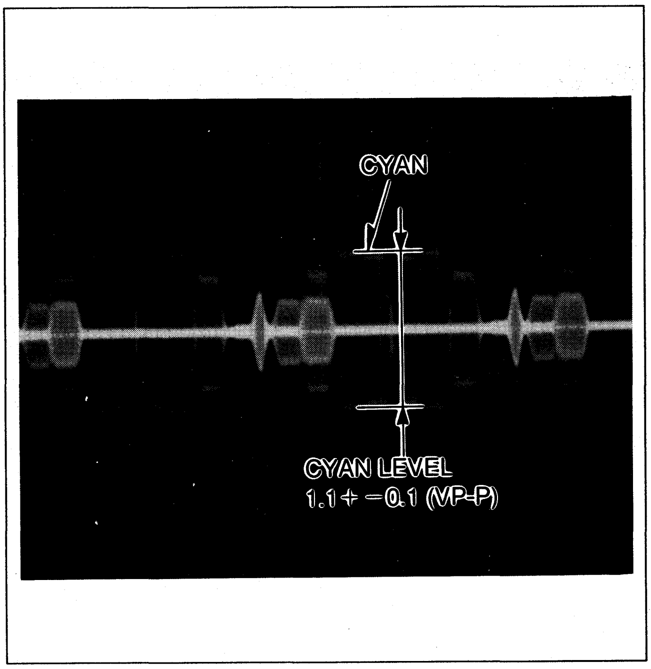

CYAN
CYAN LEVEL
1.1+−0.1 (VP-P)

Fig. E15

2-6-14. S-VHS PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3022 (Y1) TP3021 (Y2)	VR301 (Y1) VR304 (Y2)	SP (SELF RECORDED) PLAYBACK	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
S-VHS BLANK TAPE	OSCILLO-SCOPE	Y1: 0.38+−0.01(Vp-p) Y2: 2.0+−0.01(Vp-p)	

Note: 1. Set the S-VHS SW to ON position.
2. Before this adjustment, VHS PLAYBACK LEVEL ADJUSTMENT must be done.

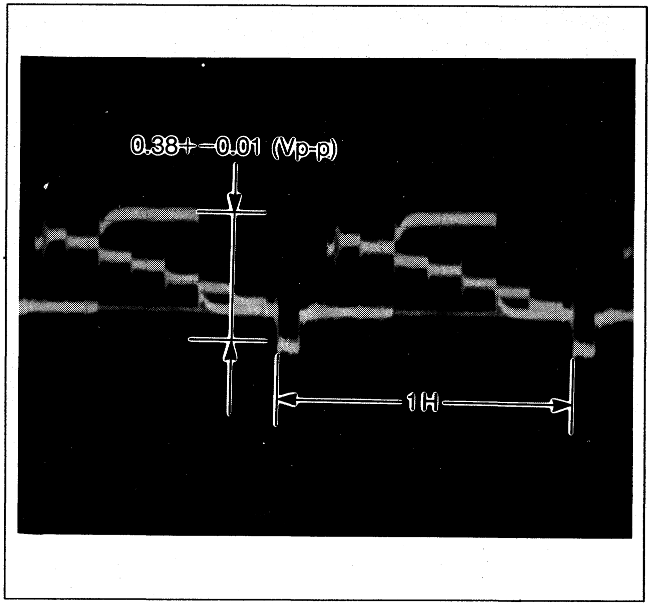

0.38+−0.01 (Vp-p)
1H

Fig. E16

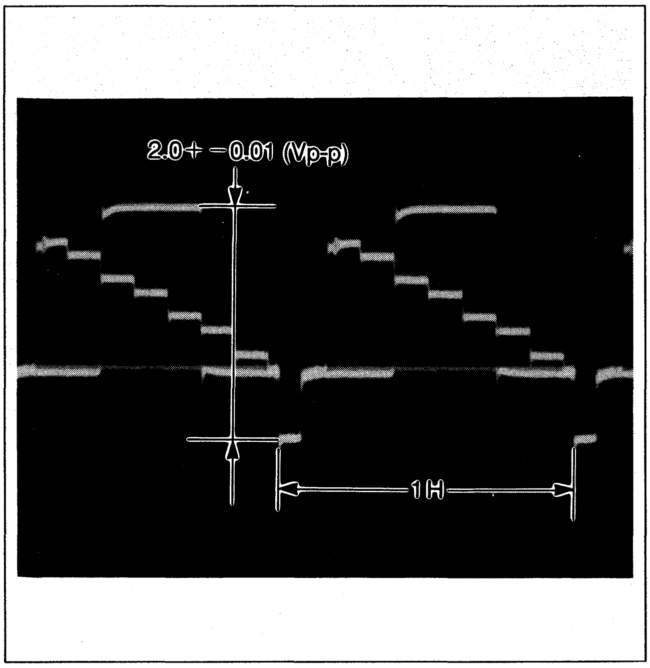

2.0+−0.01 (Vp-p)
1H

Fig. E17

2-6-15. YNR ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC301-34	VR303	LP RECORDING	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	WAVEFORM IS MINIMUM	

Note: 1. Connect the capacitor (1500pF) between IC301-34 and GND as shown in Fig. E18.

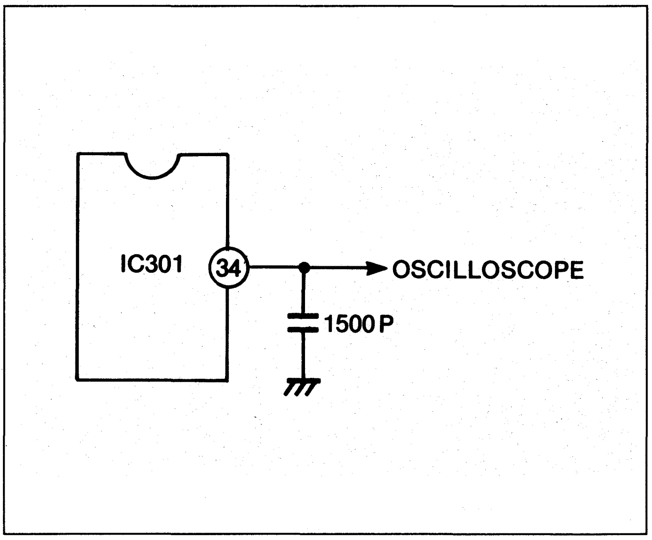

IC301
34
OSCILLOSCOPE
1500 P

Fig. E18

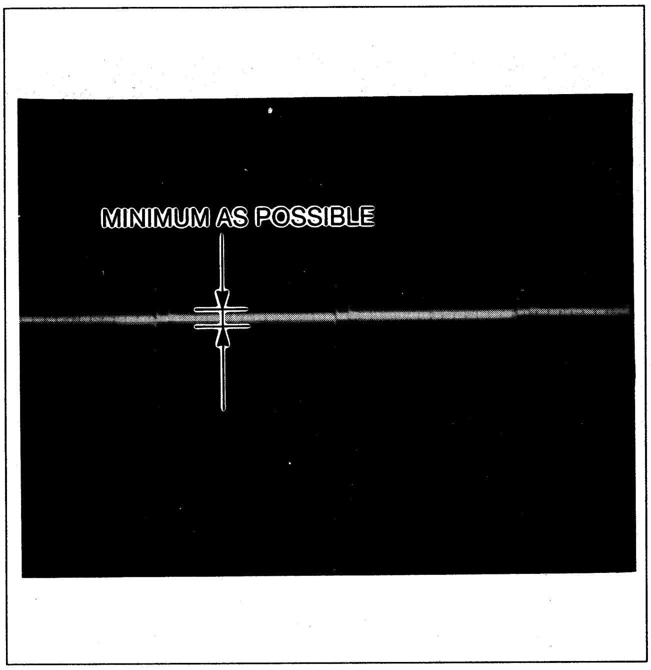


Fig. E19

2-6-16. CHROMINANCE RECURSIVE ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC801-7	VR801 VR802	(SELF RECORDED) PLAYBACK	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	WAVEFORM IS MINIMUM	

Note: 1. Before this adjustment, RECORDING CURRENT and YNR ADJUSTMENT must be done.
Note: 2. Adjust VR801 and VR802 alternately until the amplitude of the signal at IC801-7 is minimum.

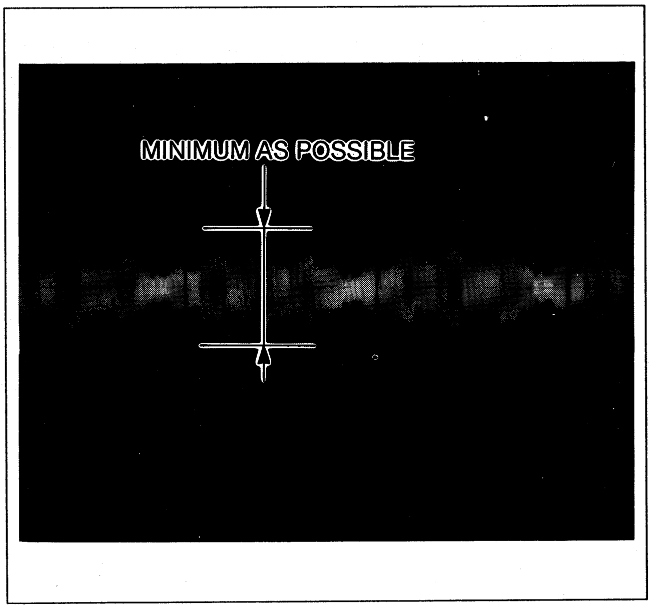


Fig. E20

2-6-17. 1H DELAY GAIN ADJUSTMENT

TP	ADJ.	MODE	INPUT
P9001-1 P9001-3	VR9501	(SELF RECORDED) PLAYBACK	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	SIGNAL LEVEL OF P9001-3 +−0.05 (Vp-p)	

Note: 1. Set the S-VHS and TBC SW to OFF position.
Note: 2. Connect the oscilloscope to P9001-1 and 3.
Note: 3. Adjust VR9501 until the level of P9001-1 is level of P9001-3 +−0.05 Vp-p.

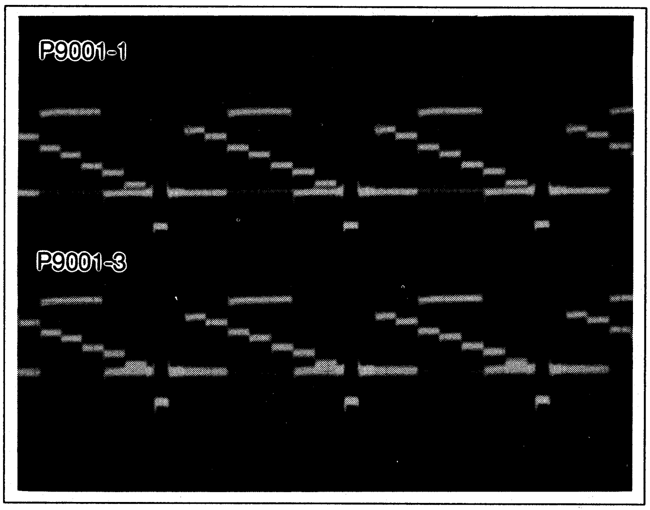


Fig. E21

2-6-18. TBC NOISE GATE ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP9001	VR9002	(SELF RECORDED) PLAYBACK	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	A=1.5+−0.1 (µsec)	

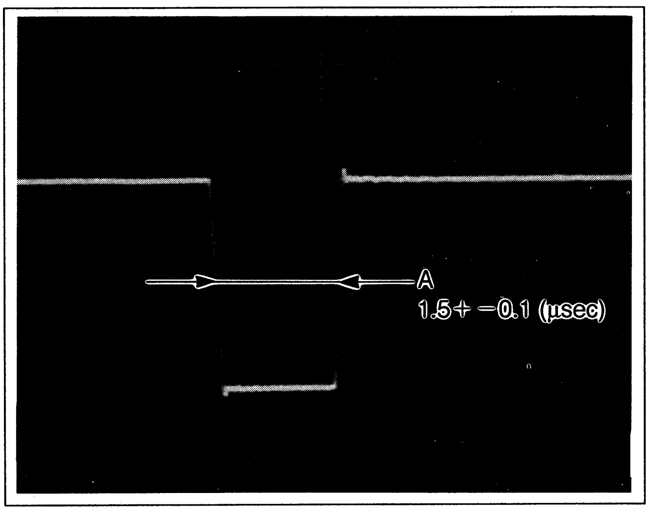


Fig. E22

2-6-19. TBC SYNC LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
P9001-1	VR9007	(SELF RECORDED) PLAYBACK	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	B=0.30+−0.05Vp-p	

Note: 1. Set the TBC SW to ON position.
Note: 2. Set the S-VHS SW to OFF position.

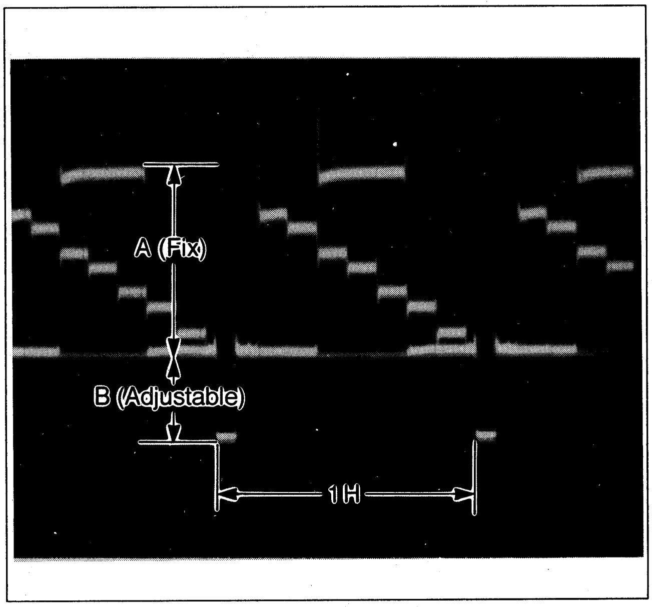


Fig. E23

2-6-20. TBC WHITE BALANCE ADJUSTMENT

TP	ADJ.	MODE	INPUT
P9001-5	VR9005 VR9006	(SELF RECORDED) PLAYBACK	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	SIGNAL LEVEL OF WHITE PORTION IS MINIMUM	

Note: 1. Set the TBC SW to ON position.
Note: 2. Before TBC R-Y LEVEL and TBC DIGITAL CHROMINANCE LEVEL ADJUSTMENT, this adjustment must be done.
Note: 3. Adjust VR9005 and VR9006 alternately until the signal level of white portion is minimum.

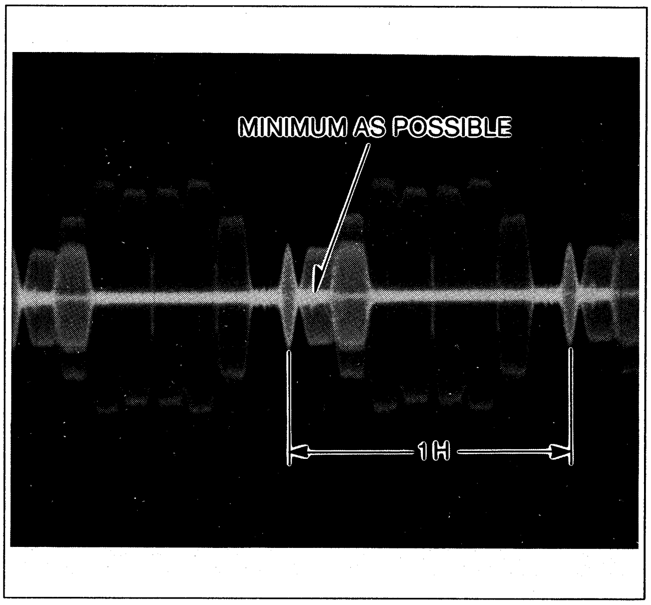


Fig. E24

2-6-21. TBC R-Y LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT	VR9003	(SELF RECORDED) PLAYBACK	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	VECTOR-SCOPE	RED VECTOR PHASE DIFFERENCE IS +−3°	

Note: 1. Turn on the TBC SW and adjust VR9003 until the RED vector is +−3° compared with TBC off condition.
Note: 2. Confirm TBC R-Y LEVEL and TBC DIGITAL CHROMINANCE LEVEL ADJUSTMENT mutually when them adjust.

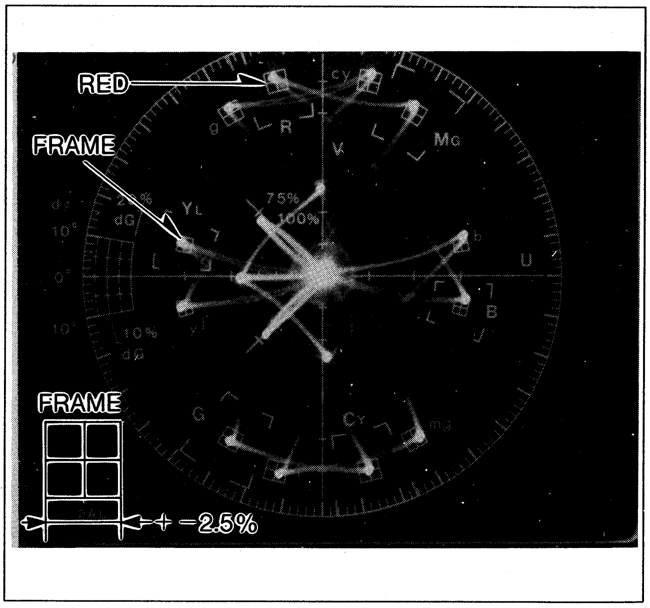


Fig. E25

2-6-22. TBC DIGITAL CHROMINANCE LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT	VR9004	(SELF RECORDED) PLAYBACK	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	VECTOR-SCOPE	BURST LEVEL IS THE SAME	

Note: 1. Turn off the TBC SW and adjust GAIN VR on vectorscope until the burst level is 75%.
2. Turn on the TBC SW and adjust VR9004 until the burst level is the same as TBC off condition (75%).

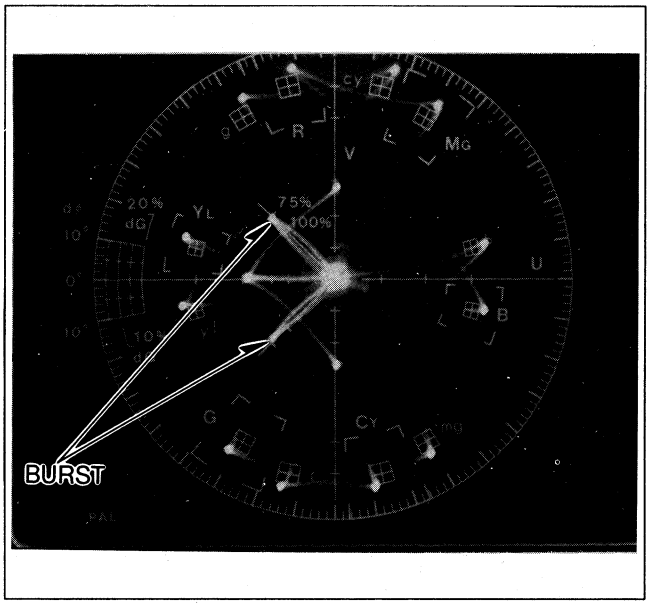


Fig. E26

2-6-23. TBC PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
P9001-1	VR9001	(SELF RECORDED) PLAYBACK	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	100+−2.5 (%)	

Note: 1. Set the S-VHS SW to OFF position.
2. Connect the oscilloscope to P9001-1 and 3.
3. Adjust VR9001 until the signal level of P9001-1 is 100+−2.5% compared with signal level of P9001-3.

2-6-24. AGC LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
PP3023-1	VR3901	STOP	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	1.0+−0.05 (Vp-p)	

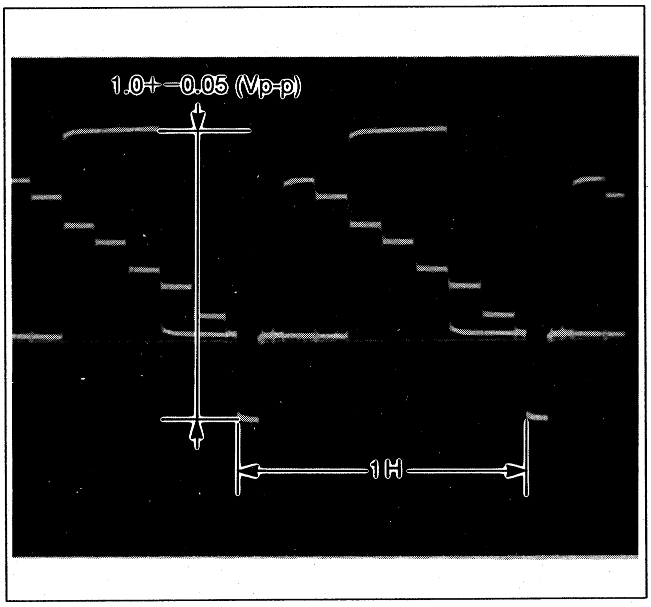


Fig. E27

AUDIO SECTION

2-6-25. BIAS CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4002 (HOT/ TEST LAND) TP4003 (GND/ TEST LAND)	VR4002	RECORDING	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	V.T.V.M.	3.0+−0.1 (mVrms)	

Note: 1. Connect a jumper wire between TP4004 and GND.
2. Set the S-VHS SW to OFF position.

2-6-26. HiFi E-E LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
AUDIO OUT (L)	VR4512	STOP	SINEWAVE 1 KHz/−6 dB (AUDIO IN (L))
TAPE	**M. EQ.**	**SPEC.**	
	V.T.V.M./ SINEWAVE GENERATOR	−8+−0.5 (dB)	

Note: 1. Select the STEREO mode by Remote Controller. (Both Left and Right indicators on the FIP are lit.)
2. Set the HIFI REC VR to FIX position.

2-6-27. CARRIER FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC4501-34 (L) IC4501-47 (R)	VR4501 (NTSC-L) VR4509 (NTSC-R) VR4551 (PAL-L) VR4552 (PAL-R)	SP RECORDING	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	FREQUENCY COUNTER	NTSC-L: 1.3+−0.003 (MHz) NTSC-R: 1.7+−0.003 (MHz) PAL-L: 1.4+−0.003 (MHz) PAL-R: 1.8+−0.003 (MHz)	

Note: 1. When adjusting the NTSC mode, connect a jumper wire between PP3013-13 and GND.
2. When adjusting the PAL mode, disconnect a jumper wire.

2-6-28. DEVIATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
BETWEEN VR4502 and R4511 (L) BETWEEN VR4507 and R4561 (R)	VR4502 (L) VR4507 (R)	SP RECORDING	SINEWAVE 1 KHz/−6 dB (AV1 IN)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	V.T.V.M./ SINEWAVE GENERATOR	110 (mVrms)	

Note: 1. Before recording the sinewave, adjust the HIFI REC VR until the audio output level of AV1 is 400 mVrms.

2-6-29. FM B.P.F. ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC4501-33 (L) IC4501-48 (R)	VR4550	PLAYBACK	SINEWAVE 1.608 MHz/ 400 mVp-p (PS4003-8)
TAPE	**M. EQ.**	**SPEC.**	
NTSC RECORDED TAPE	OSCILLO-SCOPE/ SINEWAVE GENERATOR	Lch (IC4501-33)= Rch (IC4501-48)	

Note: 1. Disconnect P501 (from MAIN C.B.A. to HEAD AMP PACK C.B.A.).
2. Connect a jumper wire between PP4003-16 and GND.
3. The GND lead of oscilloscope must be connected to GND on HIFI AUDIO PACK C.B.A. to reduce the noise.
4. Supply the sinewave signal (1.608 MHz/400 mVp-p) to PS4003-8.
5. After this adjustment, connect P501 and disconnect the jumper wire.

TIMER SECTION

2-6-30. TIMER REFERENCE CLOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
TL7501	C7501	STOP	
TAPE	M. EQ.	SPEC.	
	UNIVERSAL COUNTER	7812.5+−0.015 (μsec)	

2-6-31. LEVEL METER SENSITIVITY ADJUSTMENT

TP	ADJ.	MODE	INPUT
LEVEL METER ON THE FIP	VR4004	STOP	SINEWAVE 1 KHz/−6 dB (AUDIO IN (L), (R))
TAPE	M. EQ.	SPEC.	
		0 dB INDICATOR ON THE AUDIO LEVEL METER JUST LIGHTS UP	

Note: 1. Select the STEREO mode.
(Both Left and Right indicators on the FIP are lit.)
2. Before recording the sinewave, adjust the HIFI REC VR until the signal level at Audio Output Terminal is 400 mVrms.

2-6-32. CHARACTER GENERATOR VCO ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC3501-26 (TL3)	C3502	STOP	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
	V.T.V.M.	2.5+−0.25 V	

VITC SECTION

2-6-33. AGC ADJUSTMENT

TP	ADJ.	MODE	INPUT
TL16 (TEST LAND)	VR3801	STOP	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
	OSCILLO-SCOPE	2.0+−0.1 (Vp-p)	

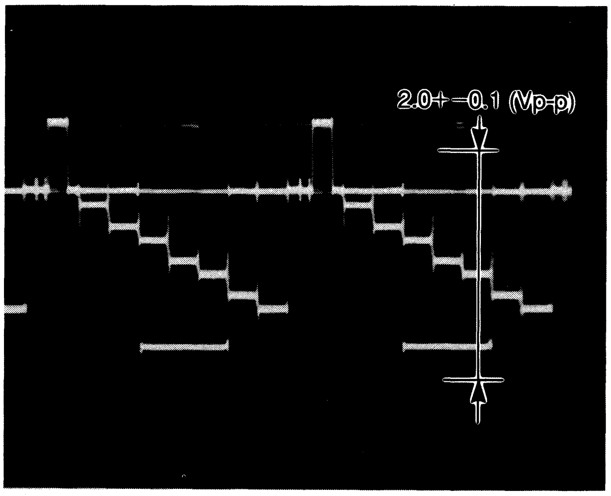
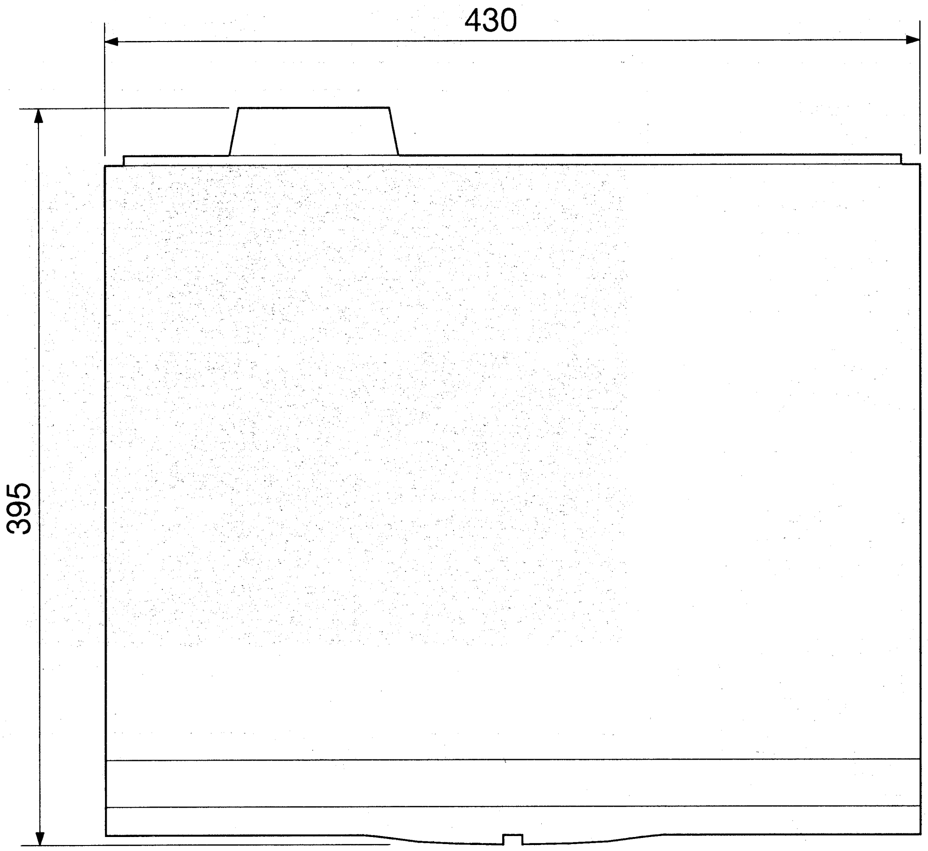
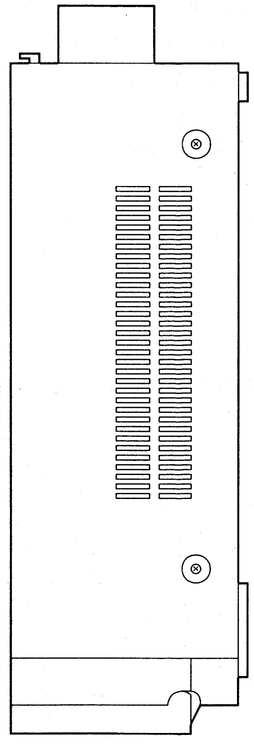
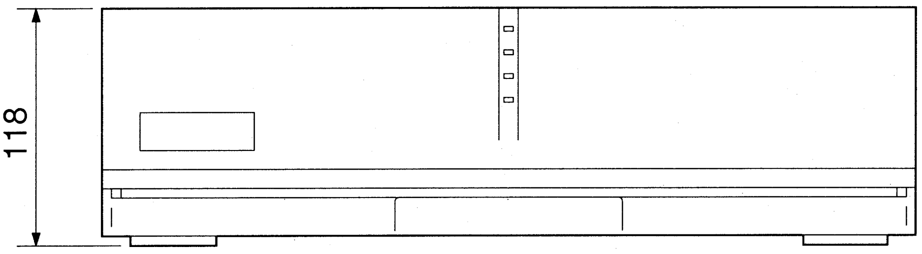


Fig. E28

2-7. DIMENSIONS







SECTION 3
BLOCK DIAGRAMS

3-1. ABBREVIATIONS

443NT [L]	4.43 NTSC Ⓛ
A. COMP	AUDIO COMPONENT SIGNAL
A. COMPO	AUDIO COMPONENT SIGNAL
A. D.P [L]	AUDIO DUBBING PAUSE Ⓛ
A. D/L [L]	AUDIO DUBBING PAUSE Ⓛ
A. DEF [S]	AUDIO DEFEAT
A. DEF [S] [L]	AUDIO DEFEAT
A. DUB P [L]	AUDIO DUBBING PAUSE Ⓛ
A. DUB [H]	AUDIO DUBBING Ⓗ
A. ERASE	AUDIO ERASE
A. H. SW	AUDIO HEAD SWITCHING PULSE
A. HEAD [R]	AUDIO HEAD (REC)
A. HEAD [W]	AUDIO HEAD (PLAY)
A. IN [L]	AUDIO INPUT (L)
A. IN [R]	AUDIO INPUT (R)
A. MUT [H]	AUDIO MUTE Ⓗ
A. MUTE [H]	AUDIO MUTE Ⓗ
A. OUT [L]	AUDIO OUTPUT (L)
A. OUT [R]	AUDIO OUTPUT (R)
A. RF OUT	AUDIO RF SIGNAL OUTPUT
A/VS/S. DATA	AV SW/SERIAL DATA
AC ONLINE	AC ONLINE
AC. O/EE. H	AC ONLINE/EE Ⓗ
AFC S C	AFC S CURVE
AFC [S]	AFC S CURVE
AFC. DEF	AFC DEFEAT
ARFC OUT	AUDIO RF SIGNAL OUTPUT
ART. V	ARTIFICIAL VERTICAL SYNC SIGNAL
ART. V. MM	ARTIFICIAL VERTICAL SYNC SIGNAL MONO MULTI
ART. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL Ⓗ/NORMAL
AT. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL
ATSW/TEST/NOR/SE	TEST/NORMAL/SERVICE
AUDIO IN [L]	AUDIO INPUT (L)
AUDIO IN [R]	AUDIO INPUT (R)
AUDIO OUT [L]	AUDIO OUTPUT (L)
AUDIO OUT [R]	AUDIO OUTPUT (R)
AUDIO SELECT [H]	AUDIO SELECT Ⓗ
AUDIO. L	AUDIO (L)
AUDIO. R	AUDIO (R)
AV CNT	AV CONTROL
AV CTL	AV CONTROL
AV CTL/S. CLK	AV CONTROL/SERIAL CLOCK
AV. C.M.	AV CONTROL MODE
AVCNT/METER. R	AV CONTROL/LEVEL METER (R)
AVSW/METER. L	AV SW/LEVEL METER (L)
B MODE. H	B MODE Ⓗ
B.G.P	BURST GATE PULSE
BACKUP 5V	BACK UP 5V
BAND. U.E.	BAND U
BANDVL. D	BAND VL
BI/MI [L]	BILINGUAL/MIX Ⓛ
BIL	BILINGUAL
BIL [L]	BILINGUAL Ⓛ
BIL. [H]	BILINGUAL Ⓗ
BIL/M1 [L]	BILINGUAL Ⓛ
BS CLOCK	BS CLOCK
BS DATA	BS DATA
BS LCH IN	BS L CHANNEL INPUT
BS MIX [H]	BS MIX Ⓗ
BS MON [H]	BS MONITOR Ⓗ
BS MONI [H]	BS MONITOR Ⓗ
BS RCH IN	BS R CHANNEL INPUT
BS VIDEO	BS VIDEO SIGNAL
BS VIDEO/BS1	BS VIDEO SIGNAL
BS [H]	BS Ⓗ
BS. LEVEL	BS LEVEL
BS. M [H]	BS MONITOR Ⓗ
BS/VTR [H]	BS/VTR Ⓗ
BUS CLK	BUS CLOCK
BUS LSN	BUS LISTEN
BUS TLK	BUS TALK
BUZZER	BUZZER
CAP EC	CAPSTAN TORQUE CONTROL
CAP M GND	CAPSTAN MOTOR GND
CAP. ET	CAPSTAN TORQUE CONTROL
CAP. FG1	CAPSTAN FG1 PULSE
CAP. FG2	CAPSTAN FG2 PULSE
CAS. SW	CASSETTE SW
CCN	PLAYBACK CONTROL SIGNAL (−)
CCP	PLAYBACK CONTROL SIGNAL (+)
CHM	CONTROL SIGNAL (+)
CHP	CONTROL SIGNAL (−)
CINEM [L]	CINEMA Ⓛ
CINEMA [L]	CINEMA Ⓛ
CINEMA/MIX	CINEMA/MIX
CKL	RATCH LOCK
CKS	SHIFT LOCK
CL	CLOCK
CLK	CLOCK
CLK (C.G)	CLOCK
CLOCK. IN	CLOCK INPUT
CLP	CLAMP
COL/B/W/NOR	COLOUR/BLACK & WHITE/NORMAL
COLOR [H]	COLOUR Ⓗ
CONV	CONVERTOR
CS	CHIP SELECT
CTL GND	CONTROL GND
CTL HEAD [+]	CONTROL HEAD (+)
CTL HEAD [−]	CONTROL HEAD (−)
CTL [+]	CONTROL HEAD (+)
CTL [−]	CONTROL HEAD (−)
CUE BIAS	CUE BIAS
CURRENT LIM	CURRENT LIMMITER
CYL ET	CYLINDER TORQUE CONTROL
CYL GND	CYLINDER GND
D.F.M. REC [H]	DELAIED FM RECORDING Ⓗ
D. FM REC [L]	DELAIED FM RECORDING Ⓛ
D. GND	DIGITAL GND

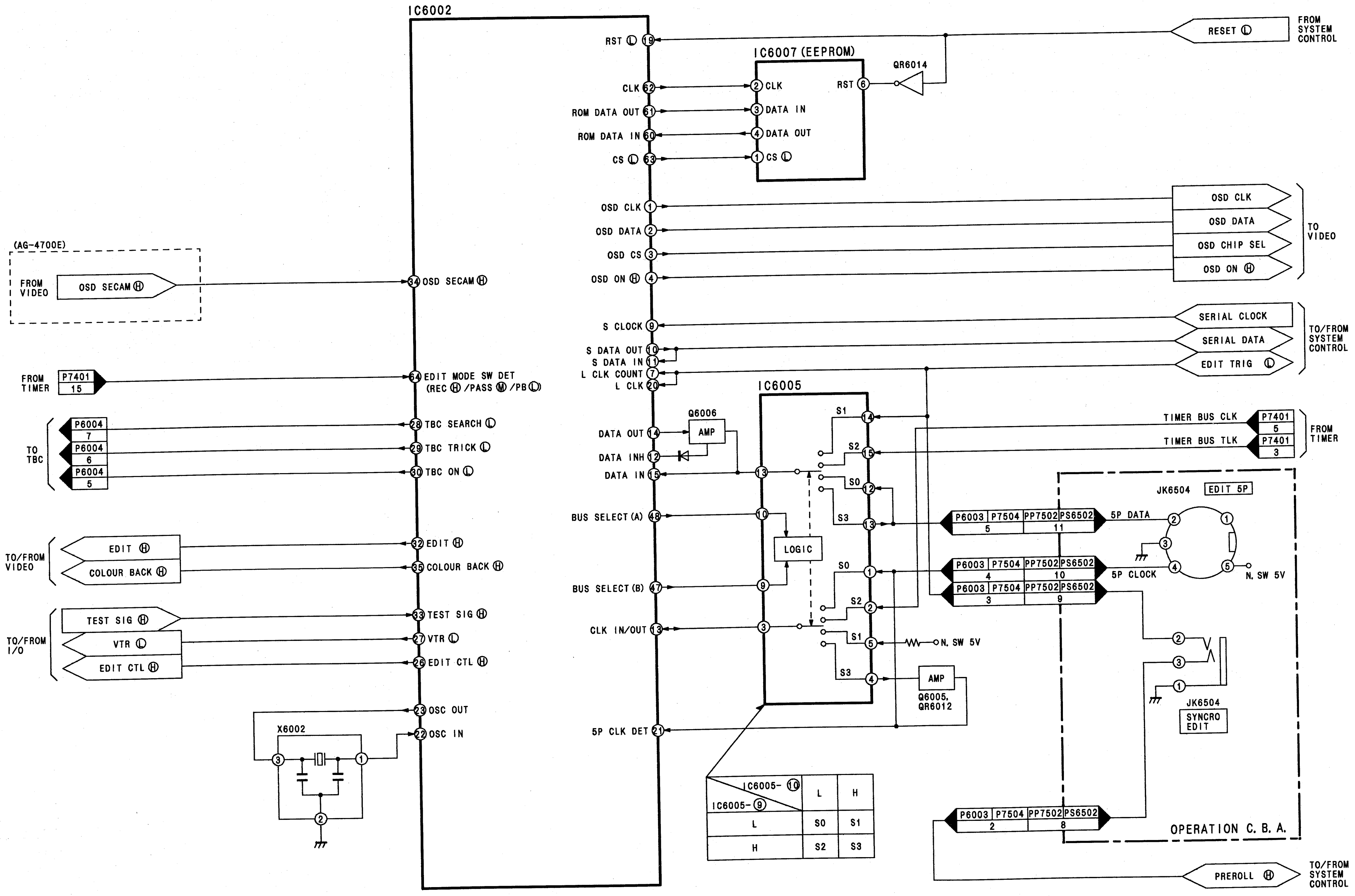
D. REC [H]	DELAYED RECORDING Ⓗ
D4/S. LED	D4/STILL LED
D4/STILLED	D4/STILL LED
DAC [CLK]	TUNER DAC (CLOCK)
DAC/FSCS	TUNER DAC/FS CHIP SELECT
DAREC [H]	DELAYED AUDIO RECORDING Ⓗ
DATA	DATA
DECODER [L]	DECODER (L)
DECODER [R]	DECODER (R)
DEW	DEW
DEW SNS	DEW SENSOR
DFMRE [H]	DELAYED FM AUDIO RECORDING Ⓗ
E. REC 5V	EXCEPT RECORDING 5V
EC	ERROR TORQUE CONTROL
ECR	ERROR TORQUE CONTROL REFERENCE VOLTAGE
EDT TRIG [L]	EDIT TRIGGER Ⓛ
EDIT [H]	EDIT Ⓗ
EE [H]	EE Ⓗ
EE [H]/INS [M]	EE Ⓗ/INSERT Ⓜ
EE. VV. TR	EE/VV/TRICK PLAY
EJECT. PO	EJECT POSITION
EJECT/VDET	EJECT/REVERSE SLOW LOCK
ENV. SEL	ENVELOPE SELECT
ENVE. OUT	ENVELOPE OUTPUT
ENVE. SEL	ENVELOPE SELECT
ENV SELECT	ENVELOPE SELECT
EP [H]	LP Ⓗ
EP/LP [H]	LP Ⓗ
EP/LP/SP	LP/SP
EP/SS [H]	LP/SLOW/STILL/STOP Ⓗ
EPROMCS	EPROM CHIP SELECT
EX. REC 5V	EXCEPT RECORDING 5V
FF/REW [L]	FIRST FORWARD/REWIND Ⓛ
FG1 IN	FG1 PULSE INPUT
FG2 IN	FG2 PULSE INPUT
FILTER ADJUSTMEN	FILTER ADJUSTMENT
FLY ERASE [H]	FLYING ERASE HEAD ON Ⓗ
FLY ON [H]	FLYING ERASE E HEAD ON Ⓗ
FLY. E [H]	FLYING ERASE HEAD ON Ⓗ
FM MUT [H]	FM AUDIO MUTE Ⓗ
FM MUTE [H]	FM AUDIO MUTE Ⓗ
FM OUT [L]	FM OUTPUT (L)
FM OUT [R]	FM OUTPUT (R)
FM PACK OUT [L]	FM PACK OUTPUT (L)
FM PACK OUT [R]	FM PACK OUTPUT (R)
FM/BS SEL [L]	FM/BS SELECT (L)
FM/BS SEL [R]	FM/BS SELECT (R)
FS. CLK	FS CLOCK
FUL. E [H]	FULL ERASE HEAD ON Ⓗ
FULL. E [H]	FULL ERASE HEAD ON Ⓗ
FULL. E. 12V	FULL ERASE 12V
GND [A]	GND (ANALOGUE)
GND [TU]	GND (TUNER)
GND/N. SW. 12V	GND/NON SW 12V

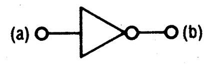
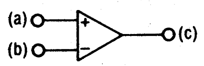
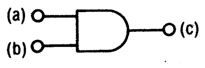
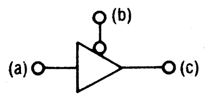
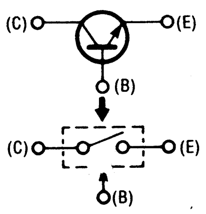
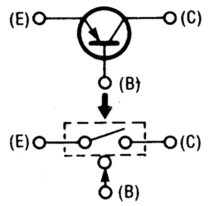
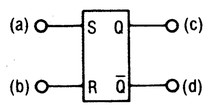
H. SYNC	HORIZONTAL SYNC
H. AMP. SW	HEAD AMP SW PULSE
H. P <R>	HEAD PHONE (R)
H. P <L>	HEAD PHONE (L)
H. P GND	HEAD PHONE GND
H. P OUT [L]	HEAD PHONE OUTPUT (L)
H. P OUT [R]	HEAD PHONE OUTPUT (R)
H. SW	HEAD SW PULSE
HEAD PHONE [L]	HEAD PHONE (L)
HEAD PHONE [R]	HEAD PHONE (R)
HEAD SW	HEAD SW
HEATER [+]	HEATER (+)
HEATER [−]	HEATER (−)
HSS	HORIZONTAL SYNC SIGNAL
HTR [+]	HEATER (+)
HTR [−]	HEATER (−)
I RFE	REFERENCE CURRENT
ICL	CONTROL AGC CIRCUIT
IF	INTERMEDIATE FREQUENCY
IN SELA1	INPUT SELECT A1 POSITION
IN SELA2	INPUT SELECT A2 POSITION
IN SELA3	INPUT SELECT A3 POSITION
INS L/R [L]	INSERT Lch/Rch Ⓛ
INS. [H]	INSERT Ⓗ
INSEL A1	INPUT SELECT A1 POSITION
INSEL A2	INPUT SELECT A2 POSITION
INSERT	INSERT
INSERT [H]	INSERT Ⓗ
IO CS	INPUT/OUTPUT CHIP SELECT
JOG1	JOG1
JOG S3 LED/FOWRD	JOG LED/FORWARD LED
JOG/F. LED	JOG LED/FORWARD LED
JSB [H]	JSB Ⓗ
JST. CLCK	JUST CLOCK
JST. CLK	JUST CLOCK
JST. CLOCK	JUST CLOCK
L. OUT	Lch OUTPUT
L. CH [H]	Lch Ⓗ
L. CH [L]	Lch Ⓛ
LED (MAIN)	LED (MAIN)
LED (STEREO)	LED (STEREO)
LED (SUB)	LED (SUB)
LED CKL	LED SERIAL CLOCK
LED CKS	LED SERIAL CLOCK
LED DATA	LED SERIAL DATA
LINE IN 1 [L]	LINE INPUT 1 (L)
LINE IN 1 [R]	LINE INPUT 1 (R)
LINE IN 2 [L]	LINE INPUT 2 (L)
LINE IN 2 [R]	LINE INPUT 2 (R)
LINE IN V	LINE INPUT VIDEO
LINE IN [L]	LINE INPUT (L)
LINE IN [R]	LINE INPUT (R)
LINE OUT [L]	LINE OUTPUT (L)
LINE OUT [R]	LINE OUTPUT (R)
LP [H]	LP Ⓗ

LPTRI [L]	LP TRICK PLAY Ⓛ
Lch/A. DUB	Lch/AUDIO DUBBING
M GND	MOTOR GND
M REG	MOTOR REGULATOR
MAIN OUT	MAIN OUTPUT
MAIN [L]	MAIN Ⓛ
MAIN/MONO	MAIN/MONAURAL
MAX IN	MAXIMAM INPUT
MES [H]	MESECAM Ⓗ
MESE [H]	MESECAM Ⓗ
MESE [L]	MESECAM Ⓛ
METER 5V	LEVEL METER 5V
METER [L]	LEVEL METER (L)
METER [R]	LEVEL METER (R)
METER. L/AVS	LEVEL METER (L)
METER. R/AVC	LEVEL METER (R)
MI/BI [L]	MIX Ⓗ/BILIGUAL
MIC GND	MIC GND
MIC IN	MIC INPUT
MIC IN [L]	MIC INPUT (L)
MIC IN [R]	MIC INPUT (R)
MIC [H]	MIC Ⓗ
MIX [H]	MIX Ⓗ
MIX [H]/CINEMA [L]	MIX Ⓗ/CINEMA SOUND Ⓛ
MIX/CINE	MIX Ⓗ/CINEMA SOUND Ⓛ
MIX/CINEMA [L]	MIX Ⓗ/CINEMA SOUND Ⓛ
MN. H/M. L	MONAURAL Ⓗ/MAIN Ⓛ
MN. H/MAI. L	MONAURAL Ⓗ/MAIN Ⓛ
MN2/MES. L	MONAURAL 2/MESECAM Ⓛ
MODE SEL	AUDIO MODE SELECT
MODE SW	AUDIO MODE SW
MODE. S. IN	AUDIO MODE SELECT INPUT
MODE. S. OUT	AUDIO MODE SELECT OUTPUT
MONO [H]	MONAURAL Ⓗ
MONO [H]/MAIN [L]	MONAURAL Ⓗ/MAIN Ⓛ
MONO2 [L]	MONAURAL 2
MONO2/MESE [FM(L)]	MONAURAL 2/MESECAM (FM Ⓛ)
MOTOR GND	MOTOR GND
MUTE	MUTE
N. A. REC [L]	NORMAL AUDIO RECORDING
N. SW 12V	NON SW 12V
N. SW. 5. DET	NON SW 5V DETECT
NICAM	NICAM
NICAM [L]	NICAM Ⓛ
NOL [H]	PAL Ⓗ/4.43 NTSC Ⓜ/3.58 NTSC Ⓛ
NOR/SOFT [H]	NORMAL/SOFT TAPE PLAY Ⓗ
NORMAL [H]	NORMAL Ⓗ
NR BIAS	NR BIAS
NTSC [L]	NTSC Ⓛ
OCH	CONTROL AGC CIRCUIT
OUT	OUTPUT
P-OFF [H]	POWER OFF Ⓗ
P-OFF [L]	POWER OFF Ⓛ
P. FAIL	POWER FAILURE DETECT
P. OFF [H]	POWER OFF Ⓗ
P. OFF [L]	POWER OFF Ⓛ
PAL [H]	PAL Ⓗ
PAL [L]/NTSC [H]	PAL Ⓛ/NTSC Ⓗ
PB ADJ OUT	PLAYBACK ADJUST OUTPUT
PB OUT	PLAYBACK OUTPUT
PB. H	PLAYBACK Ⓗ
PFG	PG/FG
PHOTSN +B	PHOTO SENSOR +B
PICT. CNT	PICTURE CONTROL
PLAY LED/RVS LED	PLAY LED/REVERSE LED
PLAY. PO	PLAY POSITION
PLAY/R. LED	PLAY LED/REVERSE LED
PLY/DEW	PLAY/DEW Ⓗ
POWER OFF [L]	POWER OFF Ⓛ
PREROLL [H]	PREROLL Ⓗ
PWRFAIL	POWER FAILURE DETECT
R. CH [H]	Rch Ⓗ
R. CH [L]	Rch Ⓛ
R. ST	RESET
R/S/F	REVERSE Ⓗ/STOP Ⓜ/FORWARD Ⓛ
RCH [H]	Rch Ⓗ
REC 12V	RECORDING 12V
REC CHROMA	RECORDING CHROMINANCE SIGNAL
REC H	RECORDING Ⓗ
REC IN	RECORDING INPUT
REC OUT [L]	RECORDING OUTPUT Ⓛ
REC START	RECORDING START
REC VR [C]	RECORDING VOLUME (COMMON)
REC VR [L]	RECORDING VOLUME (L)
REC VR [R]	RECORDING VOLUME (R)
REC Y	RECORDING LUMINANCE SIGNAL
REC [H]	RECORDING Ⓗ
REC. C	RECORDING CHROMINANCE SIGNAL
REC. Y	RECORDING LUMINANCE SIGNAL
REC/EE CTL	RECORDING/EE CONTROL
REEL-T	REEL PULSE (TAKE-UP)
REEL-S	REEL PULSE (SUPPLY)
REGULATOR FILTER	REGULATOR FILTER
RESET	RESET
REV M F/R	REVIEW MOTOR FORWARD/REVERSE
REV M V1	REVIEW MOTOR V1
REV M V2	REVIEW MOTOR V2
REV MOTOR F/R	REVIEW MOTOR FORWARD/REVERSE
REV MOTOR V1	REVIEW MOROR V1
REV MOTOR V2	REVIEW MOTOR V2
REV MOTOR [+]	REVIEW MOTOR (+)
REV MOTOR [−]	REVIEW MOTOR (−)
REV. M. GND	REVIEW MOTOR GND
RF. CHROMA	RF CHROMINANCE SIGNAL
RF OUT	RF OUTPUT
RF Y	RF LUMINANCE SIGNAL
RF. Y. IN	RF LUMINANCE SIGNAL INPUT
RF. Y. OUT	RF LUMINANCE SIGNAL OUTPUT

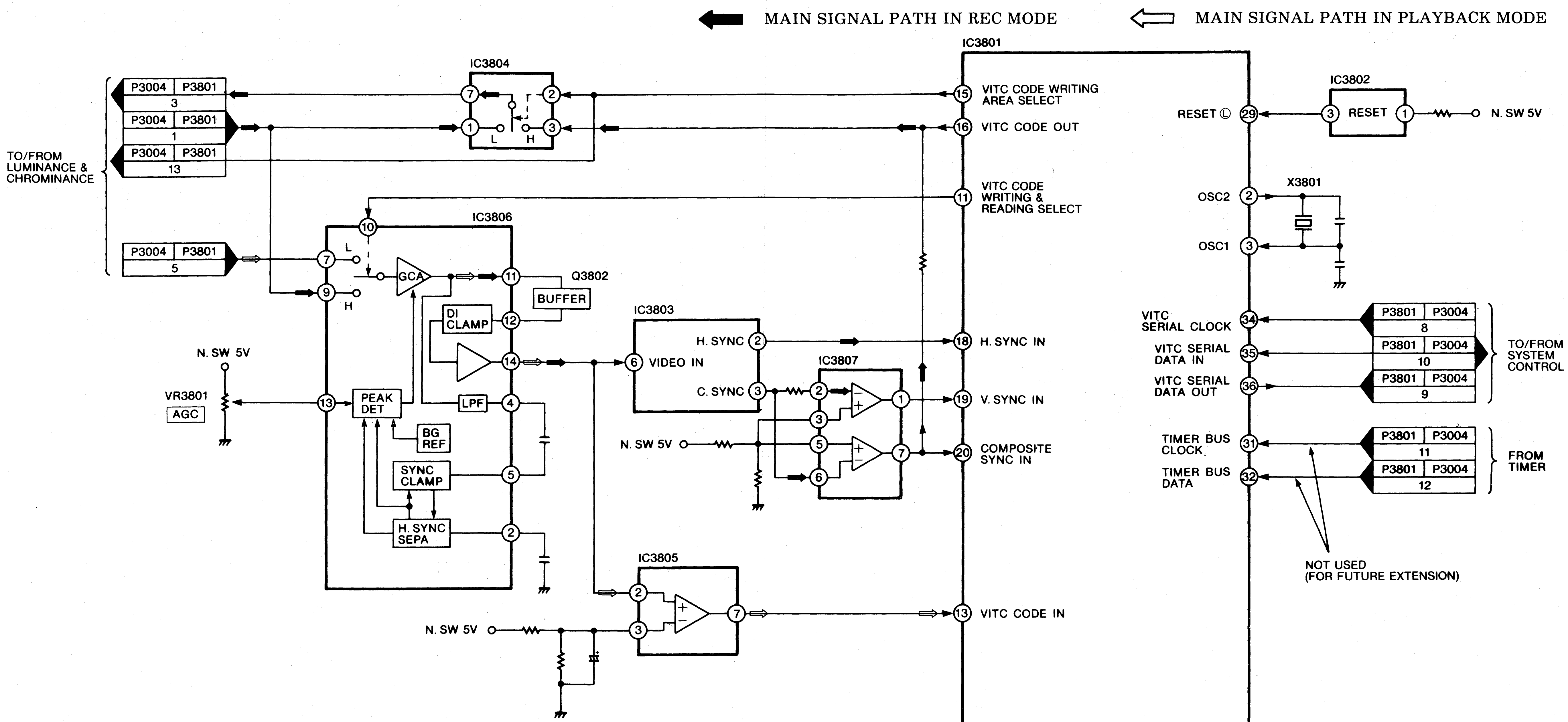
ROTAR. SW	ROTARY SW
ROTARY	ROTARY SW
RST	RESET
RST [L]	RESET Ⓛ
Rch/INST	Rch/INSERT
S IN	SERIAL DATA INPUT
S OUT	SERIAL DATA OUTPUT
S-PHOTO	SUPPLY PHOTO TRANSISTOR
S-RL. PLS	SUPPLY REEL PULSE
S. CLK	SERIAL CLOCK
S. CLK/AV	SERIAL CLOCK/AV
S. DATA	SERIAL DATA
S. DATA/A	SERIAL DATA
S. PHOTO	SUPPLY PHOTO TRANSISTOR
S. TAB [L]	SAFETY TAB SW ON Ⓛ
S/P/N	SECAM/PAL/NTSC
SC IN	SERIAL CLOCK INPUT
SC OUT	SERIAL CLOCK OUTPUT
SCK SELECT	SERIAL CLOCK SELECT
SEL OUT [L]	SELECT OUTPUT (L)
SEL OUT [R]	SELECT OUTPUT (R)
SHUTTLE 1	SHUTTLE 1
SIF	SOUND INTERMEDIATE FREQUENCY
SLMUT [H]	INPUT SELECT MUTE Ⓗ
SLNID [+]	SOLENOID (+)
SLNID [−]	SOLENOID (−)
SLW TR. MM	SLOW TRACKING MONO MULTI
SLW TR. REF	SLOW TRACKING REFERENCE VOLTAGE
SNS. GND	SENSOR GND
SOFT [H]	SOFT TAPE PLAY Ⓗ
SOFT [H]/NORMAL	SOFT TAPE PLAY Ⓗ/NORMAL Ⓗ
SOLENOID ON [L]	SOLENOID ON Ⓛ
SP [H]	SP Ⓗ
SP/L/SLP	SP/LP
SSS [L]	SLOW/STILL/STOP
STEREO LED	STEREO LED
STEREO [H]	STEREO Ⓗ
STEREO [L]	STEREO Ⓛ
STOP. PO	STOP POSITION
STOP/5V	STOP POSITION/5V
STOP1/TAPE SEL	STOP1 POSITION/TAPE SELECT
STOP1/PAL:ST	STOP1 POSITION/PAL
STOP2. PO	STOP 2 POSITION
STOP2/S-TAB	STOP 2 POSITION/SAFETY TAB SW
STREO [H]	STEREO Ⓗ
SUB BIAS	SUB BIAS
SUB. SW	SUB SW
SVHS CAS [L]	S-VHS CASSETTE Ⓛ
SW. 5. DET	SW 5V DETECT
SYNC [L]	SYNC Ⓛ
SYSCON 5V	SYSTEM CONTROL 5V
SYSTEM	SYSTEM SW
T-PHOTO	TAKE-UP PHOTO TRANSISTOR
T-RL. PLS	TAKE-UP REEL PULSE
T. BUSCLK	TIMER BUS CLOCK
T. BUSLSN	TIMER BUS LISTEN
T. BUSTLK	TIMER BUS TALK
T. END [L]	TAPE END Ⓛ
T. PHOTO	TAKE-UP PHOTO TRANSISTOR
TAPE END [L]	TAPE END Ⓛ
TAPE END [L]/CAM	TAPE END Ⓛ/CAMERA PAUSE
TEST	TEST MODE
TPZ	TRAPEZOIDAL WAVE CIRCUIT
TRIC [L]	TRIC PLAY Ⓛ
TRICK [L]	TRIC PLAY Ⓛ
TRK. ENV	AUTO TRACKING ENVELOPE DETECT
TU. AUDIO	TUNER AUDIO
TU. GND	TUNER GND
TU. V. IN	TUNER VIDEO SIGNAL INPUT
TU. VIDEO	TUNER VIDEO
TUN NOR IN	TUNER NORMAL INPUT
TUN R	TUNER AUDIO (R)
TUN. AUDIO IN	TUNER AUDIO INPUT
TUNER 12V	TUNER 12V
TUNER L	TUNER AUDIO (L)
TUNER V IN	TUNER VIDEO SIGNAL INPUT
TUNER [L]	TUNER AUDIO (L)
TUNER [N]	TUNER AUDIO (NORMAL)
TUNER [R]	TUNER AUDIO (R)
TUNER. 12	TUNER 12V
TUOFF [H]	TUNER OFF Ⓗ
TV. AUDIO	TV AUDIO
TV/VTR	TV/VTR
TXTON [L]	TEXT ON Ⓛ
U. REG45V	UNREGULATOR 45V
UNREG	UNREGULATOR
UNREG19V	UNREGULATOR 19V
V. REF	REFERENCE VOLTAGE
V. EE [H]	VIDEO EE Ⓗ
V. EE [L]	VIDEO EE Ⓛ
VCO REF	RERERENCE OSCILLATER
VD. IN	VIDEO SIGNAL INPUT
VD. OUT	VIDEO SIGNAL OUTPUT
VIDEO EE [L]	VIDEO EE Ⓛ
VIDEO IN	VIDEO SIGNAL INPUT
VIDEO OUT	VIDEO SIGNAL OUTPUT
VM	MOTOR VOLTAGE
VM DOWN [L]	MOTOR VOLTAGE DOWN Ⓛ
VSS	VERTICAL SYNC SIGNAL
VTR [H]	VTR Ⓗ
VTR. 12V	VTR 12V
X IN	OSCILLATOR INPUT
X OUT	OSCILLATOR OUTPUT

3-2. EDIT BLOCK DIAGRAM

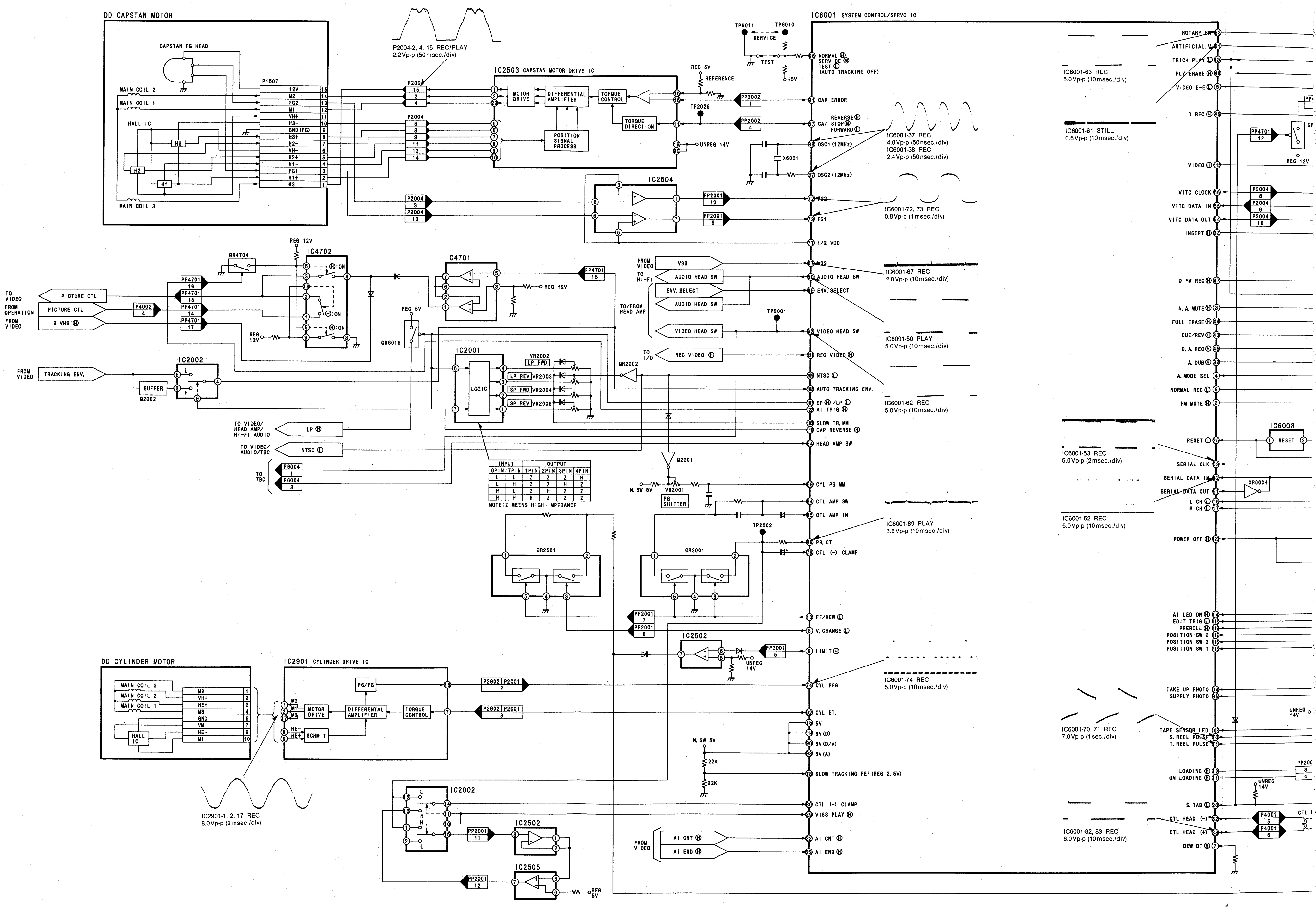

IC6002
RST Ⓛ 19
IC6007 (EEPROM)
CLK 62
ROM DATA OUT 61
ROM DATA IN 60
CS Ⓛ 63
2 CLK
3 DATA IN
4 DATA OUT
1 CS Ⓛ
RST 6
QR6014
RESET Ⓛ
FROM SYSTEM CONTROL
OSD CLK 1
OSD DATA 2
OSD CS 3
OSD ON Ⓗ 4
OSD CLK
OSD DATA
OSD CHIP SEL
OSD ON Ⓗ
TO VIDEO
(AG-4700E)
FROM VIDEO
OSD SECAM Ⓗ
34 OSD SECAM Ⓗ
S CLOCK 9
S DATA OUT 10
S DATA IN 11
L CLK COUNT 7
L CLK 20
SERIAL CLOCK
SERIAL DATA
EDIT TRIG Ⓛ
TO/FROM SYSTEM CONTROL
FROM TIMER
P7401 15
64 EDIT MODE SW DET (REC Ⓗ /PASS Ⓜ /PB Ⓛ)
TO TBC
P6004 7
P6004 6
P6004 5
28 TBC SEARCH Ⓛ
29 TBC TRICK Ⓛ
30 TBC ON Ⓛ
IC6005
Q6006
AMP
DATA OUT 14
DATA INH 12
DATA IN 15
S1
S2
S0
S3
TIMER BUS CLK
TIMER BUS TLK
P7401 5
P7401 3
FROM TIMER
JK6504
EDIT 5P
P6003 P7504 PP7502 PS6502 5 11
5P DATA
P6003 P7504 PP7502 PS6502 4 10
P6003 P7504 PP7502 PS6502 3 9
5P CLOCK
N. SW 5V
BUS SELECT (A) 48
BUS SELECT (B) 47
LOGIC
TO/FROM VIDEO
EDIT Ⓗ
COLOUR BACK Ⓗ
32 EDIT Ⓗ
35 COLOUR BACK Ⓗ
TO/FROM I/O
TEST SIG Ⓗ
VTR Ⓛ
EDIT CTL Ⓗ
33 TEST SIG Ⓗ
27 VTR Ⓛ
26 EDIT CTL Ⓗ
CLK IN/OUT 13
N. SW 5V
AMP
Q6005, QR6012
JK6504
SYNCRO EDIT
23 OSC OUT
22 OSC IN
X6002
5P CLK DET 21
IC6005-⑩
IC6005-⑨
L
H
L S0 S1
H S2 S3
P6003 P7504 PP7502 PS6502 2 8
OPERATION C. B. A.
PREROLL Ⓗ
TO/FROM SYSTEM CONTROL

SYMBOL	TRUTH VALUE TABLE
INVERTER 	IN (a): H, L OUT (b): L, H
COMPARTOR 	IN (a)/(b): (a) > (b), (a) < (b) OUT (c): H, L
AND CIRCUIT 	IN (a): L, L, H, H IN (b): L, H, L, H OUT (c): L, L, L, H
OR CIRCUIT 	IN (a): L, L, H, H IN (b): L, H, L, H OUT (c): L, H, H, H
THREE STATES BUFFER 	IN (a): H, L, H or L IN (b): L, L, H OUT (c): H, L, ※ ※ High Impedance
TR. SW (NPN TYPE) 	BASE: H, L TR. SW: ON, OFF
TR. SW (PNP TYPE) 	BASE: H, L TR. SW: OFF, ON
R-S TYPE FLIP-FLOP 	IN (a): L, L, ⎍ IN (b): L, ⎍, L OUT (c): ※, L, H OUT (d): ◆, H, L ※ Initial condition is maintained. ◆ Initial condition is reversed.

3-3. VITC BLOCK DIAGRAM

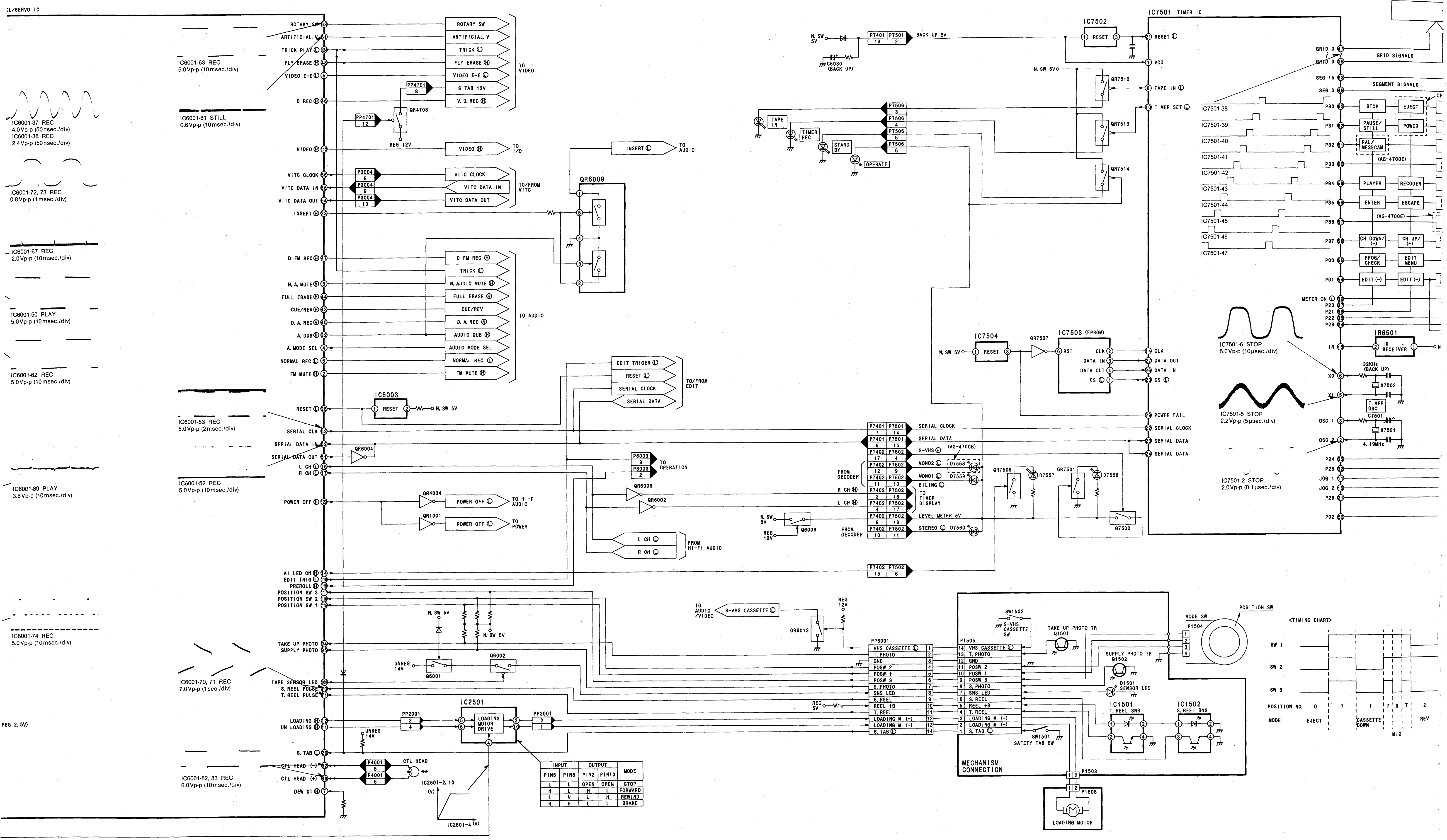

MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
IC3801
IC3804
L
H
P3004 P3801
3
P3004 P3801
1
P3004 P3801
13
TO/FROM LUMINANCE & CHROMINANCE
P3004 P3801
5
IC3806
GCA
Q3802
BUFFER
DI CLAMP
PEAK DET
LPF
BG REF
SYNC CLAMP
H. SYNC SEPA
N. SW 5V
VR3801
AGC
IC3803
H. SYNC
VIDEO IN
C. SYNC
IC3807
N. SW 5V
IC3805
N. SW 5V
VITC CODE WRITING AREA SELECT
VITC CODE OUT
VITC CODE WRITING & READING SELECT
H. SYNC IN
V. SYNC IN
COMPOSITE SYNC IN
VITC CODE IN
RESET Ⓛ
OSC2
OSC1
VITC SERIAL CLOCK
VITC SERIAL DATA IN
VITC SERIAL DATA OUT
TIMER BUS CLOCK
TIMER BUS DATA
IC3802
RESET
N. SW 5V
X3801
P3801 P3004
8
P3801 P3004
10
P3801 P3004
9
TO/FROM SYSTEM CONTROL
P3801 P3004
11
P3801 P3004
12
FROM TIMER
NOT USED (FOR FUTURE EXTENSION)

3-4. SYSTEM CONTROL & SERVO BLOCK DIAGRAM


DD CAPSTAN MOTOR
CAPSTAN FG HEAD
MAIN COIL 2
MAIN COIL 1
MAIN COIL 3
HALL IC
H1
H2
H3
P1507
12V
M2
FG2
M1
VH+
H3-
GND (FG)
H3+
H2-
VH-
H2+
H1-
FG1
H1+
M3
P2004-2, 4, 15 REC/PLAY
2.2Vp-p (50msec./div)
IC2503 CAPSTAN MOTOR DRIVE IC
MOTOR DRIVE
DIFFERENTIAL AMPLIFIER
TORQUE CONTROL
TORQUE DIRECTION
POSITION SIGNAL PROCESS
UNREG 14V
IC2504
TP6011
TP6010
SERVICE
TEST
REG 5V
REFERENCE
TP2026
X6001
IC6001 SYSTEM CONTROL/SERVO IC
NORMAL Ⓗ
SERVICE Ⓜ
TEST Ⓛ
(AUTO TRACKING OFF)
CAP ERROR
REVERSE Ⓗ
STOP Ⓜ
FORWARD Ⓛ
OSC1 (12MHz)
OSC2 (12MHz)
FG2
FG1
1/2 VDD
IC6001-37 REC
4.0Vp-p (50nsec./div)
IC6001-38 REC
2.4Vp-p (50nsec./div)
IC6001-72, 73 REC
0.8Vp-p (1msec./div)
REG 12V
QR4704
IC4702
Ⓗ:ON
IC4701
TO VIDEO
FROM OPERATION
FROM VIDEO
PICTURE CTL
S VHS Ⓗ
P4002
PP4701
REG 5V
QR6015
IC2002
TRACKING ENV.
BUFFER
Q2002
IC2001
LOGIC
VR2002
LP FWD
LP REV VR2003
SP FWD VR2004
SP REV VR2005
QR2002
TO VIDEO/HEAD AMP/HI-FI AUDIO
LP Ⓗ
TO VIDEO/AUDIO/TBC
NTSC Ⓛ
TO TBC
P6004
FROM VIDEO
TO HI-FI
VSS
AUDIO HEAD SW
ENV. SELECT
TO/FROM HEAD AMP
VIDEO HEAD SW
TO I/O
REC VIDEO Ⓗ
TP2001
Q2001
N. SW 5V
VR2001
PG SHIFTER
TP2002
QR2501
QR2001
PP2001
PP2002
IC2502
UNREG 14V
VSS
AUDIO HEAD SW
ENV. SELECT
VIDEO HEAD SW
REC VIDEO Ⓗ
NTSC Ⓛ
AUTO TRACKING ENV.
SP Ⓗ /LP Ⓛ
AI TRIG Ⓗ
SLOW TR. MM
CAP REVERSE Ⓗ
HEAD AMP SW
CYL PG MM
CTL AMP SW
CTL AMP IN
PB. CTL
CTL (-) CLAMP
FF/REW Ⓛ
V. CHANGE Ⓛ
LIMIT Ⓗ
CYL PFG
CYL ET.
5V
5V (D)
5V (D/A)
5V (A)
SLOW TRACKING REF (REG 2. 5V)
CTL (+) CLAMP
VISS PLAY Ⓗ
AI CNT Ⓗ
AI END Ⓗ
22K
IC6001-67 REC
2.0Vp-p (10msec./div)
IC6001-50 PLAY
5.0Vp-p (10msec./div)
IC6001-62 REC
5.0Vp-p (10msec./div)
IC6001-89 PLAY
3.6Vp-p (10msec./div)
IC6001-74 REC
5.0Vp-p (10msec./div)
DD CYLINDER MOTOR
HALL IC
M2
VH+
HE+
M3
GND
VM
HE-
M1
IC2901 CYLINDER DRIVE IC
PG/FG
MOTOR DRIVE
DIFFERENTIAL AMPLIFIER
TORQUE CONTROL
SCHMIT
P2902
IC2901-1, 2, 17 REC
8.0Vp-p (2msec./div)
IC2505
REG 5V
ROTARY SW
ARTIFICIAL V
TRICK PLAY Ⓛ
FLY ERASE Ⓗ
VIDEO E-E Ⓛ
D REC Ⓗ
VIDEO Ⓗ
VITC CLOCK
VITC DATA IN
VITC DATA OUT
INSERT Ⓗ
D FM REC Ⓗ
N. A. MUTE Ⓗ
FULL ERASE Ⓗ
CUE/REV Ⓗ
D. A. REC Ⓗ
A. DUB Ⓗ
A. MODE SEL
NORMAL REC Ⓛ
FM MUTE Ⓗ
RESET Ⓛ
SERIAL CLK
SERIAL DATA IN
SERIAL DATA OUT
L CH Ⓛ
R CH Ⓛ
POWER OFF Ⓗ
AI LED ON Ⓗ
EDIT TRIG Ⓛ
PREROLL Ⓗ
POSITION SW 3
POSITION SW 2
POSITION SW 1
TAKE UP PHOTO
SUPPLY PHOTO
TAPE SENSOR LED
S. REEL PULSE
T. REEL PULSE
LOADING Ⓗ
UN LOADING Ⓗ
S. TAB Ⓛ
CTL HEAD (-)
CTL HEAD (+)
DEW DT Ⓗ
IC6001-63 REC
5.0Vp-p (10msec./div)
IC6001-61 STILL
0.6Vp-p (10msec./div)
IC6001-53 REC
5.0Vp-p (2msec./div)
IC6001-52 REC
5.0Vp-p (10msec./div)
IC6001-70, 71 REC
7.0Vp-p (1sec./div)
IC6001-82, 83 REC
6.0Vp-p (10msec./div)
PP4701
REG 12V
P3004
IC6003
RESET
QR6004
UNREG 14V
P4001
CTL

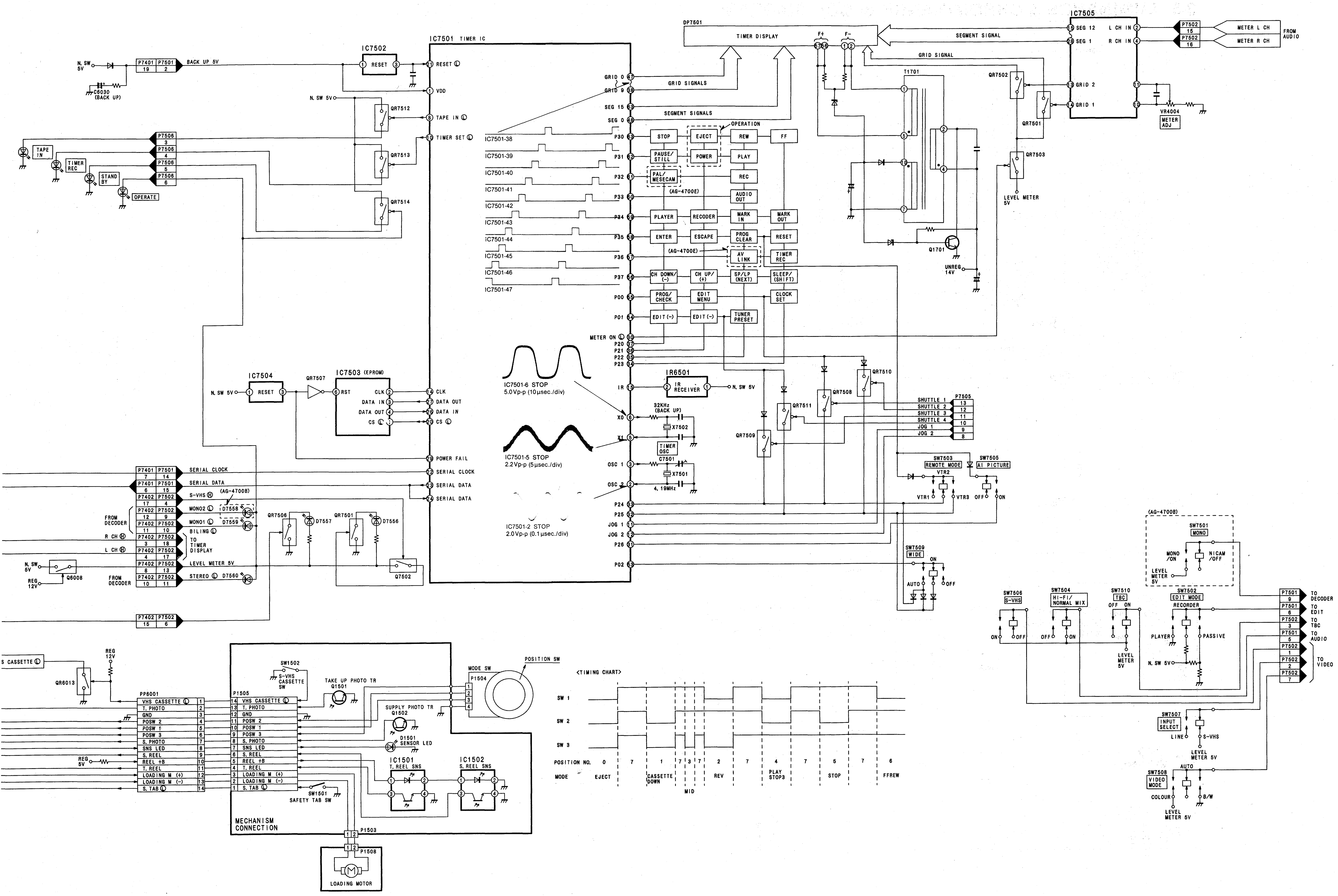
INPUT		OUTPUT			
6PIN	7PIN	1PIN	2PIN	3PIN	4PIN
L	L	Z	Z	Z	H
L	H	Z	Z	H	Z
H	L	Z	H	Z	Z
H	H	H	Z	Z	Z

NOTE:Z MEENS HIGH-IMPEDANCE

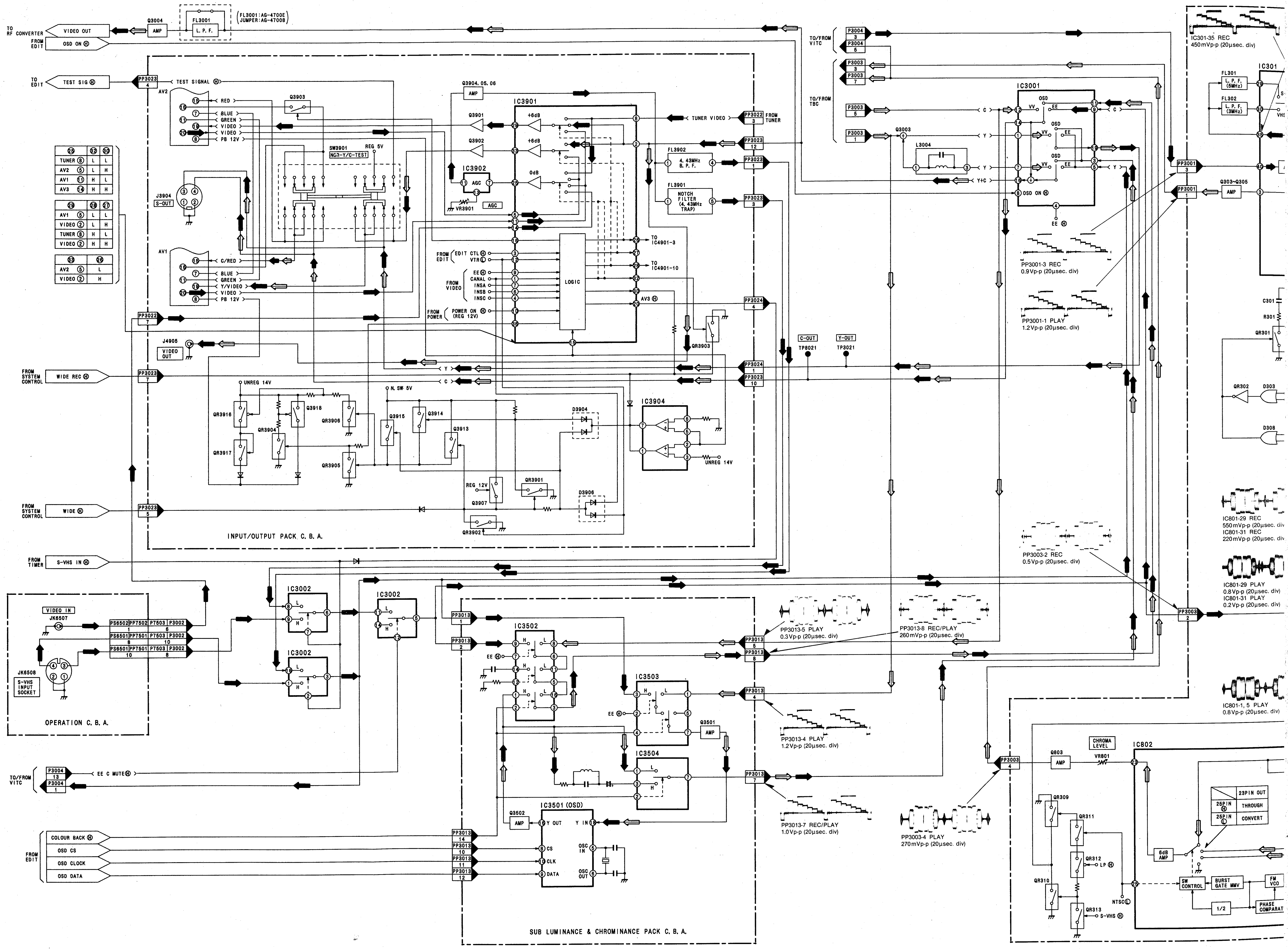


L/SERVO IC
ROTARY SW
ARTIFICIAL V
TRICK PLAY Ⓛ
FLY ERASE Ⓗ
VIDEO E-E Ⓛ
D REC Ⓗ
VIDEO Ⓗ
VITC CLOCK
VITC DATA IN
VITC DATA OUT
INSERT Ⓗ
D FM REC Ⓗ
N. A. MUTE Ⓗ
FULL ERASE Ⓗ
CUE/REV Ⓗ
D. A. REC Ⓗ
A. DUB Ⓗ
A. MODE SEL
NORMAL REC Ⓛ
FM MUTE Ⓗ
RESET Ⓛ
SERIAL CLK
SERIAL DATA IN
SERIAL DATA OUT
L CH
R CH
POWER OFF
AI LED ON Ⓗ
EDIT TRIG Ⓛ
PREROLL Ⓗ
POSITION SW 3
POSITION SW 2
POSITION SW 1
TAKE UP PHOTO
SUPPLY PHOTO
TAPE SENSOR LED
S. REEL PULSE
T. REEL PULSE
LOADING Ⓗ
UN LOADING Ⓗ
S. TAB Ⓛ
CTL HEAD (−)
CTL HEAD (+)
DEW DT Ⓗ
IC6001-63 REC 5.0Vp-p (10msec./div)
IC6001-37 REC 4.0Vp-p (50nsec./div)
IC6001-38 REC 2.4Vp-p (50nsec./div)
IC6001-61 STILL 0.6Vp-p (10msec./div)
IC6001-72, 73 REC 0.8Vp-p (1msec./div)
IC6001-67 REC 2.0Vp-p (10msec./div)
IC6001-50 PLAY 5.0Vp-p (10msec./div)
IC6001-62 REC 5.0Vp-p (10msec./div)
IC6001-53 REC 5.0Vp-p (2msec./div)
IC6001-52 REC 5.0Vp-p (10msec./div)
IC6001-89 PLAY 3.6Vp-p (10msec./div)
IC6001-74 REC 5.0Vp-p (10msec./div)
IC6001-70, 71 REC 7.0Vp-p (1sec./div)
IC6001-82, 83 REC 6.0Vp-p (10msec./div)
REG 2.5V
ROTARY SW
ARTIFICIAL. V
TRICK Ⓛ
FLY ERASE Ⓗ
VIDEO E-E Ⓛ
S TAB 12V
V. D. REC Ⓗ
TO VIDEO
PP4701
QR4708
REG 12V
VIDEO Ⓗ
TO I/O
P3004
VITC CLOCK
VITC DATA IN
VITC DATA OUT
TO/FROM VITC
INSERT Ⓛ
TO AUDIO
QR6009
D FM REC Ⓗ
TRICK Ⓛ
N. AUDIO MUTE Ⓗ
FULL ERASE Ⓗ
CUE/REV
D. A. REC Ⓗ
AUDIO DUB Ⓗ
AUDIO MODE SEL
NORMAL REC Ⓛ
FM MUTE Ⓗ
TO AUDIO
EDIT TRIGER Ⓛ
RESET Ⓛ
SERIAL CLOCK
SERIAL DATA
TO/FROM EDIT
IC6003
RESET
N. SW 5V
QR6004
P6003
TO OPERATION
QR6003
QR6002
QR4004
POWER OFF Ⓛ
TO HI-FI AUDIO
QR1001
POWER OFF Ⓛ
TO POWER
L CH Ⓛ
R CH Ⓛ
FROM HI-FI AUDIO
N. SW 5V
UNREG 14V
Q6001
Q6002
PP2001
IC2501
LOADING MOTOR DRIVE
UNREG 14V
P4001
CTL HEAD
IC2501-2, 10 (V)
IC2501-4 (V)
TO AUDIO /VIDEO
S-VHS CASSETTE Ⓛ
QR6013
REG 12V
PP6001
VHS CASSETTE Ⓛ
T. PHOTO
GND
POSW 2
POSW 1
POSW 3
S. PHOTO
SNS LED
S. REEL
REEL +B
T. REEL
LOADING M (+)
LOADING M (−)
S. TAB Ⓛ
REG 5V
N. SW 5V
P7401
P7501
BACK UP 5V
C6030 (BACK UP)
P7506
TAPE IN
TIMER REC
STAND BY
OPERATE
IC7502
RESET
N. SW 5V
QR7512
QR7513
QR7514
IC7504
RESET
QR7507
IC7503 (EPROM)
RST
CLK
DATA IN
DATA OUT
CS Ⓛ
P7402
P7502
SERIAL CLOCK
SERIAL DATA
S-VHS Ⓗ
(AG-4700B)
MONO2 Ⓛ
MONO1 Ⓛ
D7558
D7559
BILING Ⓛ
TO TIMER DISPLAY
FROM DECODER
R CH Ⓗ
L CH Ⓗ
LEVEL METER 5V
STEREO Ⓛ
D7560
FROM DECODER
Q6008
REG 12V
QR7506
D7557
QR7501
D7556
Q7502
IC7501 TIMER IC
RESET Ⓛ
VDD
TAPE IN Ⓛ
TIMER SET Ⓛ
CLK
DATA OUT
DATA IN
CS Ⓛ
POWER FAIL
SERIAL CLOCK
SERIAL DATA
SERIAL DATA
DP7501
GRID 0
GRID 9
GRID SIGNALS
SEG 15
SEG 0
SEGMENT SIGNALS
IC7501-38
IC7501-39
IC7501-40
IC7501-41
IC7501-42
IC7501-43
IC7501-44
IC7501-45
IC7501-46
IC7501-47
P30
P31
P32
P33
P34
P35
P36
P37
P00
P01
STOP
EJECT
PAUSE/ STILL
POWER
PAL/ MESECAM
(AG-4700E)
PLAYER
RECODER
ENTER
ESCAPE
(AG-4700E)
CH DOWN/ (−)
CH UP/ (+)
PROG/ CHECK
EDIT MENU
EDIT (−)
EDIT (−)
METER ON Ⓛ
P20
P21
P22
P23
IR
IR6501
IR RECEIVER
IC7501-6 STOP 5.0Vp-p (10μsec./div)
IC7501-5 STOP 2.2Vp-p (5μsec./div)
IC7501-2 STOP 2.0Vp-p (0.1μsec./div)
X0
X1
32KHz (BACK UP)
X7502
TIMER OSC
C7501
OSC 1
OSC 2
X7501
4. 19MHz
P24
P25
JOG 1
JOG 2
P26
P02
MECHANISM CONNECTION
SW1502
S-VHS CASSETTE SW
TAKE UP PHOTO TR
Q1501
SUPPLY PHOTO TR
Q1502
D1501
SENSOR LED
P1505
IC1501
T. REEL SNS
IC1502
S. REEL SNS
SW1501
SAFETY TAB SW
P1503
P1508
LOADING MOTOR
MODE SW
P1504
POSITION SW
<TIMING CHART>
SW 1
SW 2
SW 3
POSITION NO.
0
7
1
7
3
7
2
MODE
EJECT
CASSETTE DOWN
MID
REV

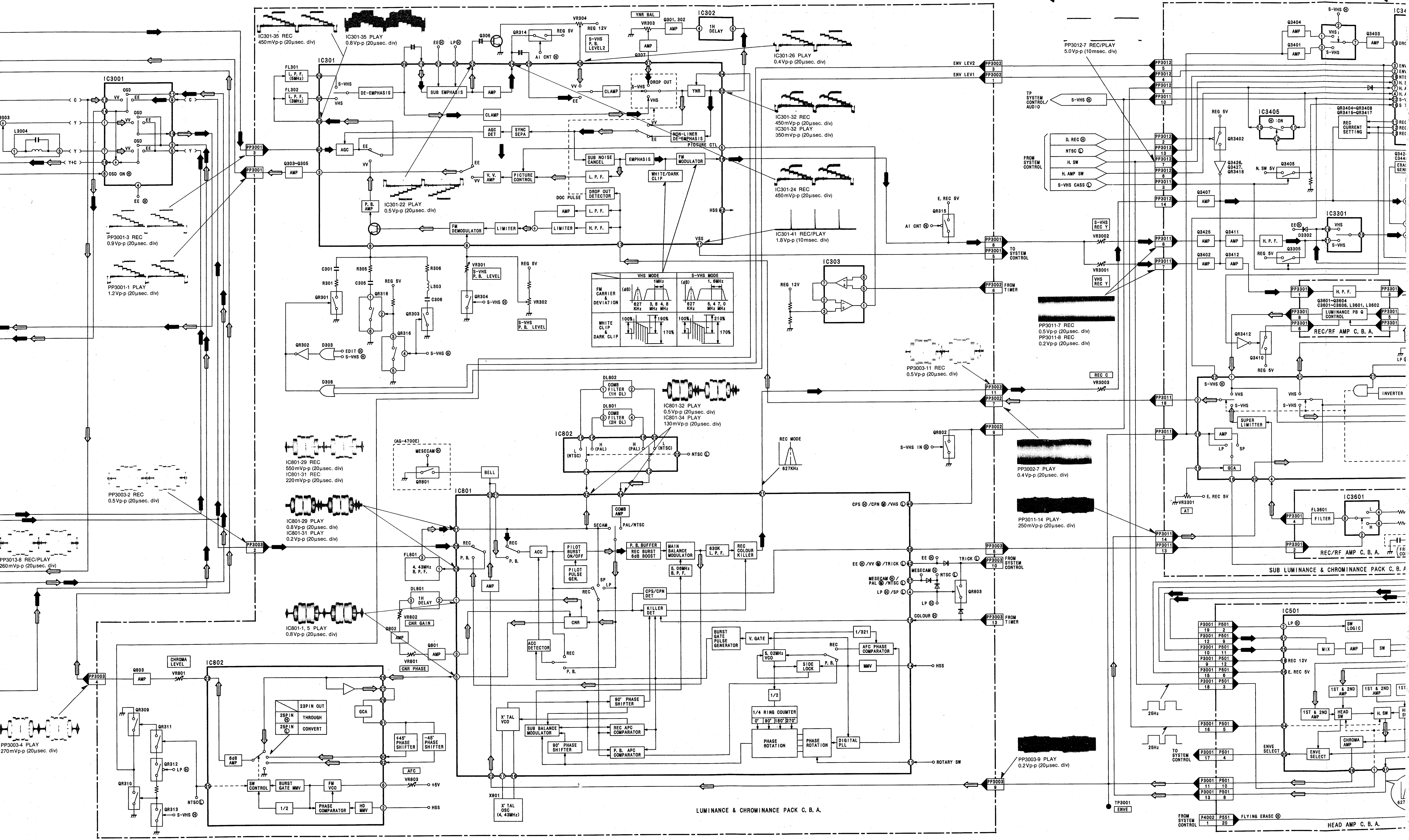
INPUT		OUTPUT		MODE
PIN5	PIN6	PIN2	PIN10	
L	L	OPEN	OPEN	STOP
H	L	H	L	FORWARD
L	H	L	H	REWIND
H	H	L	L	BRAKE

IC7501 TIMER IC
IC7502
RESET
IC7503 (EPROM)
IC7504
RESET
IC7505
IR6501
IR RECEIVER
DP7501
TIMER DISPLAY
F+
F−
SEGMENT SIGNAL
GRID SIGNAL
GRID SIGNALS
SEGMENT SIGNALS
T1701
Q1701
UNREG 14V
METER L CH
METER R CH
FROM AUDIO
SEG 12
SEG 1
L CH IN
R CH IN
GRID 2
GRID 1
VR4004
METER ADJ
QR7501
QR7502
QR7503
LEVEL METER 5V
N. SW 5V
P7401
P7501
BACK UP 5V
C6030 (BACK UP)
RESET Ⓛ
VDD
TAPE IN Ⓛ
TIMER SET Ⓛ
QR7512
QR7513
QR7514
P7506
TAPE IN
TIMER REC
STAND BY
OPERATE
GRID 0
GRID 9
SEG 15
SEG 0
P30
P31
P32
P33
P34
P35
P36
P37
P00
P01
METER ON Ⓛ
P20
P21
P22
P23
IR
X0
X1
OSC 1
OSC 2
P24
P25
JOG 1
JOG 2
P26
P02
IC7501-38
IC7501-39
IC7501-40
IC7501-41
IC7501-42
IC7501-43
IC7501-44
IC7501-45
IC7501-46
IC7501-47
OPERATION
STOP
EJECT
REW
FF
PAUSE/STILL
POWER
PLAY
PAL/MESECAM
(AG-4700E)
REC
AUDIO OUT
PLAYER
RECODER
MARK IN
MARK OUT
ENTER
ESCAPE
PROG CLEAR
RESET
(AG-4700E)
AV LINK
TIMER REC
CH DOWN/(−)
CH UP/(+)
SP/LP (NEXT)
SLEEP/(SHIFT)
PROG/CHECK
EDIT MENU
CLOCK SET
EDIT(−)
EDIT(−)
TUNER PRESET
IC7501-6 STOP
5.0Vp-p (10μsec./div)
IC7501-5 STOP
2.2Vp-p (5μsec./div)
IC7501-2 STOP
2.0Vp-p (0.1μsec./div)
32KHz (BACK UP)
X7502
TIMER OSC
C7501
X7501
4. 19MHz
QR7507
RST
CLK
DATA IN
DATA OUT
CS Ⓛ
CLK
DATA OUT
DATA IN
CS Ⓛ
POWER FAIL
SERIAL CLOCK
SERIAL DATA
SERIAL DATA
QR7508
QR7509
QR7510
QR7511
P7505
SHUTTLE 1
SHUTTLE 2
SHUTTLE 3
SHUTTLE 4
JOG 1
JOG 2
SW7503
REMOTE MODE
VTR2
VTR1
VTR3
SW7505
AI PICTURE
OFF
ON
SW7509
WIDE
ON
AUTO
OFF
P7402
P7502
SERIAL CLOCK
SERIAL DATA
S-VHS Ⓗ
(AG-4700B)
MONO2 Ⓛ
D7558
MONO1 Ⓛ
D7559
BILING Ⓛ
TO TIMER DISPLAY
LEVEL METER 5V
STEREO Ⓛ
D7560
FROM DECODER
R CH Ⓗ
L CH Ⓗ
N. SW 5V
REG 12V
Q6008
FROM DECODER
QR7506
D7557
QR7501
D7556
Q7502
(AG-4700B)
SW7501
MONO
MONO /ON
NICAM /OFF
LEVEL METER 5V
SW7506
S-VHS
ON
OFF
SW7504
HI-FI/NORMAL MIX
OFF
ON
SW7510
TBC
OFF
ON
LEVEL METER 5V
SW7502
EDIT MODE
RECORDER
PLAYER
PASSIVE
N. SW 5V
P7501
TO DECODER
TO EDIT
TO TBC
TO AUDIO
TO VIDEO
SW7507
INPUT SELECT
LINE
S-VHS
LEVEL METER 5V
SW7508
VIDEO MODE
AUTO
COLOUR
B/W
LEVEL METER 5V
S CASSETTE Ⓛ
QR6013
REG 12V
PP6001
VHS CASSETTE Ⓛ
T. PHOTO
GND
POSW 2
POSW 1
POSW 3
S. PHOTO
SNS LED
S. REEL
REEL +B
T. REEL
LOADING M (+)
LOADING M (−)
S. TAB Ⓛ
REG 5V
P1505
SW1502
S-VHS CASSETTE SW
TAKE UP PHOTO TR
Q1501
SUPPLY PHOTO TR
Q1502
D1501
SENSOR LED
IC1501
T. REEL SNS
IC1502
S. REEL SNS
SW1501
SAFETY TAB SW
MECHANISM CONNECTION
P1503
P1508
LOADING MOTOR
MODE SW
P1504
POSITION SW
<TIMING CHART>
SW 1
SW 2
SW 3
POSITION NO.
0
7
1
7
3
7
2
7
4
7
5
7
6
MODE
EJECT
CASSETTE DOWN
MID
REV
PLAY STOP3
STOP
FFREW

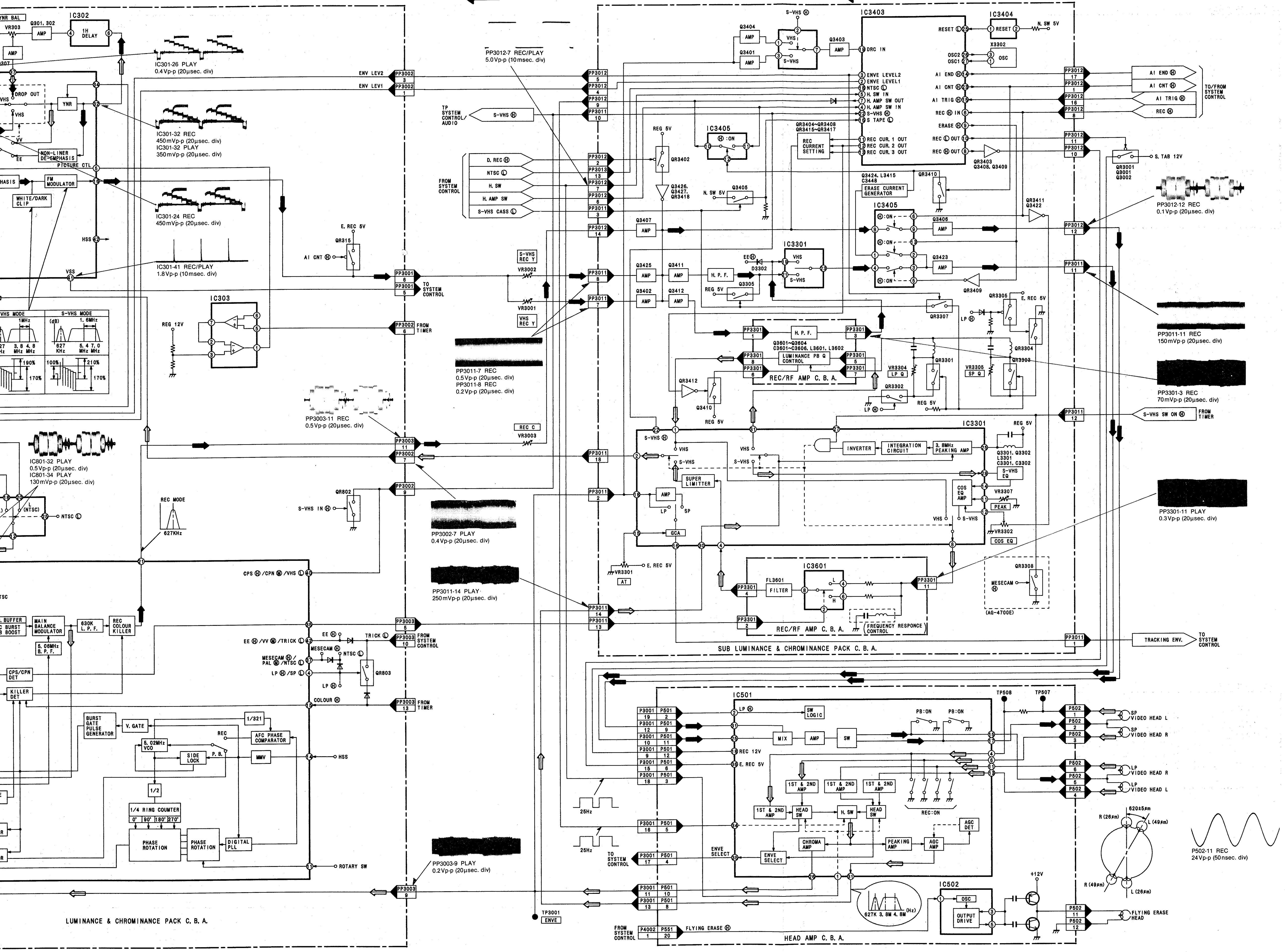
3-5. LUMINANCE & CHROMINANCE BLOCK DIAGRAM


TO RF CONVERTER
VIDEO OUT
FROM EDIT
OSD ON Ⓗ
Q3004 AMP
FL3001 L.P.F.
(FL3001:AG-4700E JUMPER:AG-4700B)
TO EDIT
TEST SIG Ⓗ
PP3023
TEST SIGNAL Ⓗ
AV2
RED
BLUE
GREEN
VIDEO
PB 12V
Q3903
SW3901
REG 5V
NOR-Y/C-TEST
Q3904, 05, 06 AMP
IC3901
Q3901
Q3902
IC3902
AGC
VR3901
+6dB
0dB
TUNER VIDEO
FROM TUNER
FL3902 4.43MHz B.P.F.
FL3901 NOTCH FILTER (4.43MHz TRAP)
TO IC4901-3
TO IC4901-10
LOGIC
FROM EDIT
EDIT CTL Ⓗ
VTR Ⓗ
FROM VIDEO
EE Ⓗ
CANAL
INSA
INSB
INSC
FROM POWER
POWER ON Ⓗ (REG 12V)
AV3 Ⓗ
J3904 S-OUT
AV1
C/RED
Y/VIDEO
J4905 VIDEO OUT
FROM SYSTEM CONTROL
WIDE REC Ⓗ
UNREG 14V
N. SW 5V
QR3916
QR3917
QR3904
QR3918
QR3906
QR3905
Q3915
Q3914
Q3913
REG 12V
Q3907
QR3901
QR3902
D3904
D3906
IC3904
UNREG 14V
QR3903
C-OUT TP8021
Y-OUT TP3021
WIDE Ⓗ
INPUT/OUTPUT PACK C.B.A.
FROM TIMER
S-VHS IN Ⓗ
VIDEO IN JK6507
JK6508 S-VHS INPUT SOCKET
OPERATION C.B.A.
IC3002
IC3502
IC3503
IC3504
Q3501 AMP
Q3502 AMP
IC3501 (OSD)
Y OUT
Y IN
CS
CLK
DATA
OSC IN
OSC OUT
TO/FROM VITC
EE C MUTE Ⓗ
FROM EDIT
COLOUR BACK Ⓗ
OSD CS
OSD CLOCK
OSD DATA
SUB LUMINANCE & CHROMINANCE PACK C.B.A.
PP3013-5 PLAY 0.3Vp-p (20μsec. div)
PP3013-8 REC/PLAY 260mVp-p (20μsec. div)
PP3013-4 PLAY 1.2Vp-p (20μsec. div)
PP3013-7 REC/PLAY 1.0Vp-p (20μsec. div)
PP3003-4 PLAY 270mVp-p (20μsec. div)
TO/FROM VITC
TO/FROM TBC
P3004
P3003
IC3001
OSD
VV
EE
OSD ON Ⓗ
EE Ⓗ
Q3003
L3004
Y+C
PP3001-3 REC 0.9Vp-p (20μsec. div)
PP3001-1 PLAY 1.2Vp-p (20μsec. div)
PP3003-2 REC 0.5Vp-p (20μsec. div)
IC301-35 REC 450mVp-p (20μsec. div)
FL301 L.P.F. (5MHz)
FL302 L.P.F. (3MHz)
IC301
Q303~Q305 AMP
C301
R301
QR301
QR302
D303
D308
IC801-29 REC 550mVp-p (20μsec. div)
IC801-31 REC 220mVp-p (20μsec. div)
IC801-29 PLAY 0.8Vp-p (20μsec. div)
IC801-31 PLAY 0.2Vp-p (20μsec. div)
IC801-1, 5 PLAY 0.8Vp-p (20μsec. div)
Q803 AMP
CHROMA LEVEL VR801
IC802
QR309
QR311
QR312
LP Ⓗ
QR310
QR313
NTSC Ⓛ
S-VHS Ⓗ
6dB AMP
SW CONTROL
BURST GATE MMV
1/2
FM VCO
PHASE COMPARAT
23PIN OUT
25PIN Ⓗ THROUGH
25PIN Ⓛ CONVERT

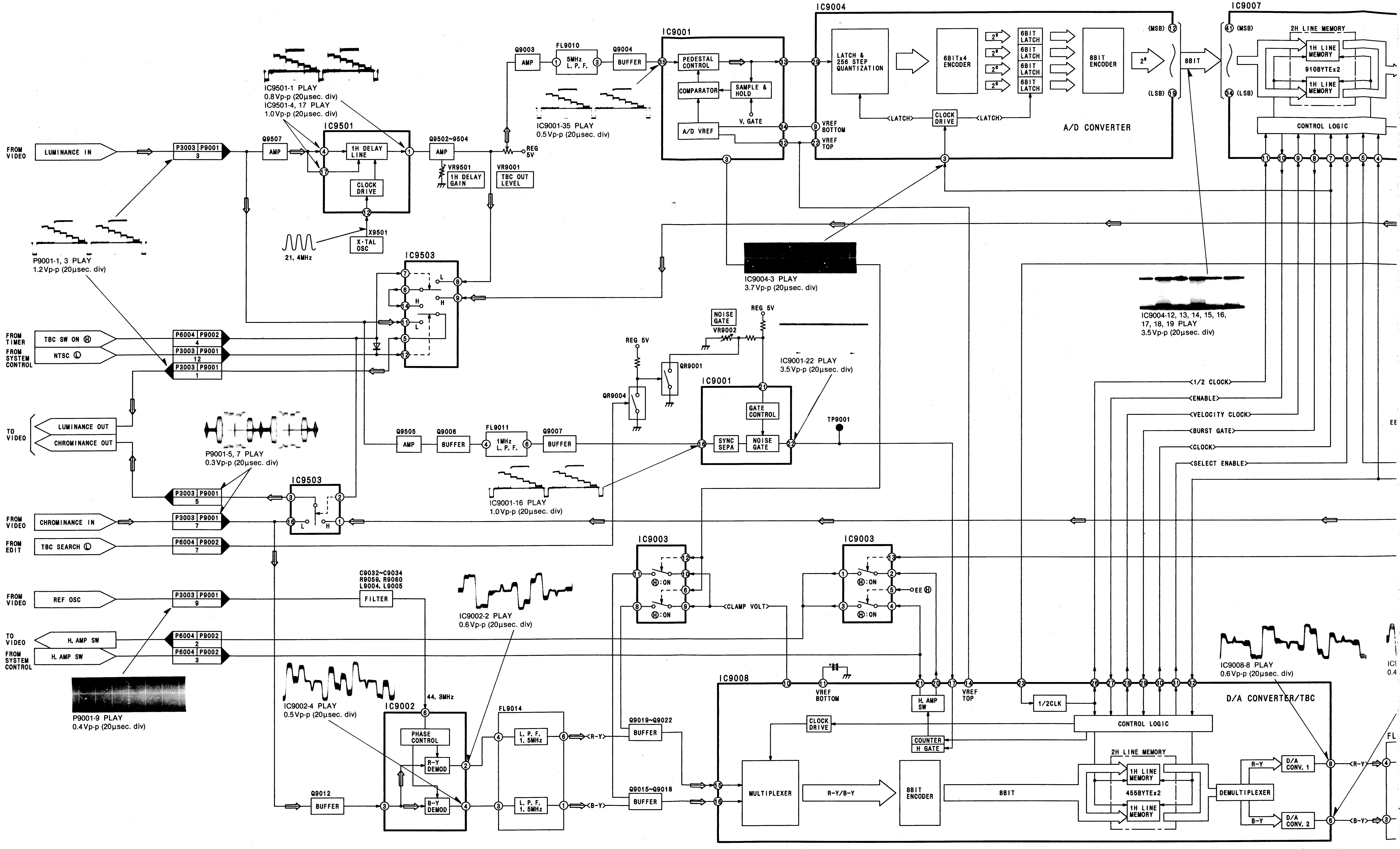
MAIN SIGNAL PATH IN REC MODE


IC3001
IC301
IC302
1H DELAY
IC303
IC801
IC802
DL801
DL802
COMB FILTER (1H DL)
COMB FILTER (2H DL)
IC3301
IC3405
IC3601
IC501
DE-EMPHASIS
SUB EMPHASIS
AMP
CLAMP
AGC
AGC DET
SYNC SEPA
V. V. AMP
PICTURE CONTROL
SUB NOISE CANCEL
EMPHASIS
FM MODULATOR
WHITE/DARK CLIP
NON-LINER DE-EMPHASIS
DROP OUT
DROP OUT DETECTOR
YNR
FM DEMODULATOR
LIMITER
L. P. F.
H. P. F.
ACC
PILOT BURST ON/OFF
PILOT PULSE GEN.
P. B. BUFFER REC BURST 6dB BOOST
MAIN BALANCE MODULATOR
630K L. P. F.
REC COLOUR KILLER
5. 06MHz B. P. F.
CPS/CPN DET
KILLER DET
CNR
ACC DETECTOR
BURST GATE PULSE GENERATOR
V. GATE
5. 02MHz VCO
SIDE LOCK
MMV
AFC PHASE COMPARATOR
1/321
1/2
1/4 RING COUNTER
PHASE ROTATION
DIGITAL PLL
90° PHASE SHIFTER
SUB BALANCE MODULATOR
REC APC COMPARATOR
P. B. APC COMPARATOR
X'TAL VCO
X'TAL OSC (4. 43MHz)
4. 43MHz B. P. F.
CHROMA LEVEL
CNR GAIN
CNR PHASE
GCA
6dB AMP
SW CONTROL
BURST GATE MMV
FM VCO
PHASE COMPARATOR
HD MMV
+45° PHASE SHIFTER
-45° PHASE SHIFTER
23PIN OUT
25PIN THROUGH
25PIN CONVERT
BELL
MESECAM
(AG-4700E)
TO SYSTEM CONTROL
FROM SYSTEM CONTROL
FROM TIMER
ROTARY SW
HSS
LUMINANCE & CHROMINANCE PACK C. B. A.
REC/RF AMP C. B. A.
SUB LUMINANCE & CHROMINANCE PACK C. B. A.
HEAD AMP C. B. A.
REC CURRENT SETTING
LUMINANCE PB Q CONTROL
SUPER LIMITTER
INVERTER
FLYING ERASE
ENVE SELECT
CHROMA AMP
HEAD SW
H. SW
1ST & 2ND AMP
MIX
SW LOGIC
25Hz
IC301-35 REC 450mVp-p (20μsec. div)
IC301-35 PLAY 0.8Vp-p (20μsec. div)
IC301-26 PLAY 0.4Vp-p (20μsec. div)
IC301-32 REC 450mVp-p (20μsec. div)
IC301-32 PLAY 350mVp-p (20μsec. div)
IC301-24 REC 450mVp-p (20μsec. div)
IC301-41 REC/PLAY 1.8Vp-p (10msec. div)
IC301-22 PLAY 0.5Vp-p (20μsec. div)
PP3001-3 REC 0.9Vp-p (20μsec. div)
PP3001-1 PLAY 1.2Vp-p (20μsec. div)
PP3003-2 REC 0.5Vp-p (20μsec. div)
PP3013-8 REC/PLAY 260mVp-p (20μsec. div)
PP3003-4 PLAY 270mVp-p (20μsec. div)
IC801-29 REC 550mVp-p (20μsec. div)
IC801-31 REC 220mVp-p (20μsec. div)
IC801-29 PLAY 0.8Vp-p (20μsec. div)
IC801-31 PLAY 0.2Vp-p (20μsec. div)
IC801-1, 5 PLAY 0.8Vp-p (20μsec. div)
IC801-32 PLAY 0.5Vp-p (20μsec. div)
IC801-34 PLAY 130mVp-p (20μsec. div)
PP3012-7 REC/PLAY 5.0Vp-p (10msec. div)
PP3011-7 REC 0.5Vp-p (20μsec. div)
PP3011-8 REC 0.2Vp-p (20μsec. div)
PP3003-11 REC 0.5Vp-p (20μsec. div)
PP3002-7 PLAY 0.4Vp-p (20μsec. div)
PP3011-14 PLAY 250mVp-p (20μsec. div)
PP3003-9 PLAY 0.2Vp-p (20μsec. div)
FM CARRIER & DEVIATION
WHITE CLIP & DARK CLIP
VHS MODE
S-VHS MODE
REC MODE
627KHz

MAIN SIGNAL PATH IN REC MODE   MAIN SIGNAL PATH IN PLAYBACK MODE


IC302
1H DELAY
Q301, 302
AMP
VR303
YNR BAL
DROP OUT
YNR
NON-LINER DE-EMPHASIS
PICTURE CTL
FM MODULATOR
WHITE/DARK CLIP
HSS
VSS
IC301-26 PLAY
0.4Vp-p (20µsec. div)
IC301-32 REC
450mVp-p (20µsec. div)
IC301-32 PLAY
350mVp-p (20µsec. div)
IC301-24 REC
450mVp-p (20µsec. div)
IC301-41 REC/PLAY
1.8Vp-p (10msec. div)
ENV LEV2
ENV LEV1
E. REC 5V
QR315
AI CNT Ⓗ
TO SYSTEM CONTROL
IC303
REG 12V
FROM TIMER
VHS MODE
S-VHS MODE
PP3003-11 REC
0.5Vp-p (20µsec. div)
IC801-32 PLAY
0.5Vp-p (20µsec. div)
IC801-34 PLAY
130mVp-p (20µsec. div)
REC MODE
627KHz
QR802
S-VHS IN Ⓗ
NTSC Ⓛ
CPS Ⓗ/CPN Ⓜ/VHS Ⓛ
EE Ⓗ/VV Ⓜ/TRICK Ⓛ
MESECAM Ⓗ/PAL Ⓜ/NTSC Ⓛ
LP Ⓗ/SP Ⓛ
COLOUR Ⓗ
HSS
ROTARY SW
QR803
TRICK Ⓛ
MAIN BALANCE MODULATOR
630K L.P.F.
REC COLOUR KILLER
5.06MHz B.P.F.
CPS/CPN DET
KILLER DET
BURST GATE PULSE GENERATOR
V. GATE
1/321
AFC PHASE COMPARATOR
5.02MHz VCO
SIDE LOCK
MMV
1/2
1/4 RING COUNTER
0° 90° 180° 270°
PHASE ROTATION
PHASE ROTATION
DIGITAL PLL
LUMINANCE & CHROMINANCE PACK C. B. A.
PP3002-7 PLAY
0.4Vp-p (20µsec. div)
PP3011-14 PLAY
250mVp-p (20µsec. div)
PP3003-9 PLAY
0.2Vp-p (20µsec. div)
PP3012-7 REC/PLAY
5.0Vp-p (10msec. div)
TP SYSTEM CONTROL/AUDIO
S-VHS Ⓗ
FROM SYSTEM CONTROL
D. REC Ⓗ
NTSC Ⓛ
H. SW
H. AMP SW
S-VHS CASS Ⓛ
PP3011-7 REC
0.5Vp-p (20µsec. div)
PP3011-8 REC
0.2Vp-p (20µsec. div)
S-VHS REC Y
VR3002
VR3001
VHS REC Y
REC C
VR3003
IC3403
IC3404
RESET
X3302
OSC
DRC IN
ENVE LEVEL2
ENVE LEVEL1
NTSC Ⓛ
H. SW IN
H. AMP SW OUT
H. AMP SW IN
S-VHS Ⓗ
S TAPE Ⓛ
REC CUR. 1 OUT
REC CUR. 2 OUT
REC CUR. 3 OUT
AI END Ⓗ
AI CNT Ⓗ
AI TRIG Ⓗ
REC Ⓗ IN
ERASE Ⓗ
REC Ⓛ OUT
REC Ⓗ OUT
TO/FROM SYSTEM CONTROL
S. TAB 12V
QR3001 Q3001 Q3002
Q3404
Q3401
Q3403
IC3405
QR3404~QR3408 QR3415~QR3417
REC CURRENT SETTING
QR3402
Q3426, Q3427, QR3418
N. SW 5V
Q3405
Q3424, L3415 C3448
ERASE CURRENT GENERATOR
QR3410
QR3411 Q3422
Q3406
Q3423
QR3409
QR3403 Q3408, Q3409
PP3012-12 REC
0.1Vp-p (20µsec. div)
Q3407
Q3425
Q3411
Q3402
Q3412
H. P. F.
D3302
Q3305
IC3301
QR3307
QR3305
LP Ⓗ
Q3601~Q3604 C3601~C3606, L3601, L3602
LUMINANCE PB Q CONTROL
REC/RF AMP C. B. A.
QR3412
Q3410
VR3304 LP Q
VR3305 SP Q
QR3301
QR3302
QR3304
QR3303
PP3011-11 REC
150mVp-p (20µsec. div)
PP3301-3 REC
70mVp-p (20µsec. div)
S-VHS SW ON Ⓗ
INVERTER
INTEGRATION CIRCUIT
3.8MHz PEAKING AMP
Q3301, Q3302 L3301 C3301, C3302
S-VHS EQ
COS EQ AMP
VR3307
PEAK
VR3302
COS EQ
SUPER LIMITTER
GCA
VR3301
AT
IC3601
FL3601
FILTER
FREQUENCY RESPONCE CONTROL
QR3308
MESECAM Ⓗ
(AG-4700E)
PP3301-11 PLAY
0.3Vp-p (20µsec. div)
TRACKING ENV.
SUB LUMINANCE & CHROMINANCE PACK C. B. A.
IC501
SW LOGIC
MIX
AMP
SW
PB:ON
REC 12V
E. REC 5V
1ST & 2ND AMP
HEAD SW
H. SW
REC:ON
AGC DET
CHROMA AMP
PEAKING AMP
AGC AMP
ENVE SELECT
TP508
TP507
SP VIDEO HEAD L
SP VIDEO HEAD R
LP VIDEO HEAD R
LP VIDEO HEAD L
25Hz
TP3001 ENVE
627K 3.8M 4.8M (Hz)
IC502
OSC
OUTPUT DRIVE
+12V
FLYING ERASE HEAD
FLYING ERASE Ⓗ
HEAD AMP C. B. A.
R(26µm)
620±5µm
L(49µm)
R(49µm)
L(26µm)
P502-11 REC
24Vp-p (50nsec. div)

3-6. TBC BLOCK DIAGRAM


IC9004
IC9007
IC9001
IC9501
IC9503
IC9003
IC9002
IC9008
FROM VIDEO
LUMINANCE IN
P3003 P9001 3
Q9507
AMP
1H DELAY LINE
CLOCK DRIVE
X9501
X-TAL OSC
21. 4MHz
Q9502~9504
AMP
VR9501
1H DELAY GAIN
VR9001
TBC OUT LEVEL
REG 5V
Q9003
AMP
FL9010
5MHz L. P. F.
Q9004
BUFFER
PEDESTAL CONTROL
COMPARATOR
SAMPLE & HOLD
V. GATE
A/D VREF
VREF BOTTOM
VREF TOP
LATCH & 256 STEP QUANTIZATION
6BITx4 ENCODER
6BIT LATCH
8BIT ENCODER
8BIT
CLOCK DRIVE
LATCH
A/D CONVERTER
(MSB)
(LSB)
2H LINE MEMORY
1H LINE MEMORY
910BYTEx2
CONTROL LOGIC
FROM TIMER
TBC SW ON Ⓗ
P6004 P9002 4
FROM SYSTEM CONTROL
NTSC Ⓛ
P3003 P9001 12
P3003 P9001 1
TO VIDEO
LUMINANCE OUT
CHROMINANCE OUT
P3003 P9001 5
FROM VIDEO
CHROMINANCE IN
P3003 P9001 7
FROM EDIT
TBC SEARCH Ⓛ
P6004 P9002 7
FROM VIDEO
REF OSC
P3003 P9001 9
TO VIDEO
H. AMP SW
P6004 P9002 2
FROM SYSTEM CONTROL
H. AMP SW
P6004 P9002 3
NOISE GATE
VR9002
REG 5V
QR9001
QR9004
GATE CONTROL
SYNC SEPA
NOISE GATE
TP9001
Q9505
AMP
Q9006
BUFFER
FL9011
1MHz L. P. F.
Q9007
BUFFER
C9032~C9034 R9059, R9060 L9004, L9005
FILTER
Ⓗ:ON
CLAMP VOLT
EE Ⓗ
44. 3MHz
PHASE CONTROL
R-Y DEMOD
B-Y DEMOD
Q9012
BUFFER
FL9014
L. P. F. 1. 5MHz
R-Y
B-Y
Q9019~Q9022
BUFFER
Q9015~Q9018
BUFFER
1/2 CLOCK
ENABLE
VELOCITY CLOCK
BURST GATE
CLOCK
SELECT ENABLE
VREF BOTTOM
VREF TOP
H. AMP SW
COUNTER H GATE
1/2CLK
CLOCK DRIVE
CONTROL LOGIC
D/A CONVERTER/TBC
MULTIPLEXER
R-Y/B-Y
8BIT ENCODER
8BIT
455BYTEx2
DEMULTIPLEXER
D/A CONV. 1
D/A CONV. 2
L
H
EE
FL

IC9501-1 PLAY
0.8Vp-p (20μsec. div)
IC9501-4, 17 PLAY
1.0Vp-p (20μsec. div)

IC9001-35 PLAY
0.5Vp-p (20μsec. div)

P9001-1, 3 PLAY
1.2Vp-p (20μsec. div)

IC9004-3 PLAY
3.7Vp-p (20μsec. div)

IC9004-12, 13, 14, 15, 16, 17, 18, 19 PLAY
3.5Vp-p (20μsec. div)

IC9001-22 PLAY
3.5Vp-p (20μsec. div)

P9001-5, 7 PLAY
0.3Vp-p (20μsec. div)

IC9001-16 PLAY
1.0Vp-p (20μsec. div)

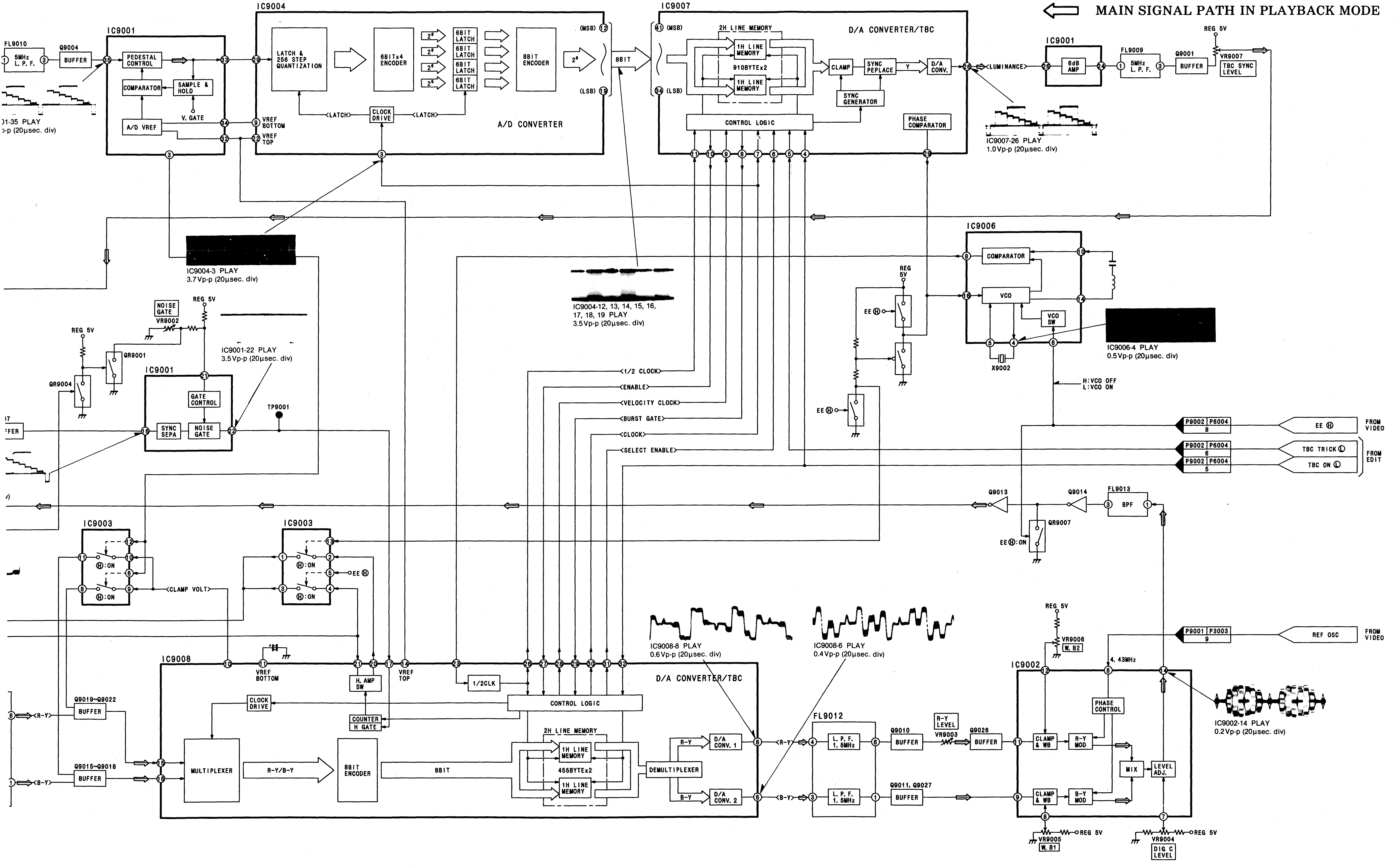
IC9002-2 PLAY
0.6Vp-p (20μsec. div)

IC9002-4 PLAY
0.5Vp-p (20μsec. div)

P9001-9 PLAY
0.4Vp-p (20μsec. div)

IC9008-8 PLAY
0.6Vp-p (20μsec. div)

MAIN SIGNAL PATH IN PLAYBACK MODE


FL9010
5MHz L. P. F.
Q9004
BUFFER
IC9001
PEDESTAL CONTROL
COMPARATOR
SAMPLE & HOLD
V. GATE
A/D VREF
IC9004
LATCH & 256 STEP QUANTIZATION
6BITx4 ENCODER
6BIT LATCH
8BIT ENCODER
(MSB)
(LSB)
<LATCH>
CLOCK DRIVE
A/D CONVERTER
VREF BOTTOM
VREF TOP
8BIT
IC9007
D/A CONVERTER/TBC
2H LINE MEMORY
1H LINE MEMORY
910BYTEx2
CLAMP
SYNC PEPLACE
Y
D/A CONV.
SYNC GENERATOR
CONTROL LOGIC
PHASE COMPARATOR
<LUMINANCE>
6dB AMP
FL9009
5MHz L. P. F.
Q9001
BUFFER
REG 5V
VR9007
TBC SYNC LEVEL
IC9006
COMPARATOR
VCO
VCO SW
X9002
H:VCO OFF
L:VCO ON
EE Ⓗ
REG 5V
NOISE GATE
VR9002
QR9001
QR9004
GATE CONTROL
SYNC SEPA
NOISE GATE
TP9001
FER
<1/2 CLOCK>
<ENABLE>
<VELOCITY CLOCK>
<BURST GATE>
<CLOCK>
<SELECT ENABLE>
P9002 P6004 8
P9002 P6004 6
P9002 P6004 5
EE Ⓗ
TBC TRICK Ⓛ
TBC ON Ⓛ
FROM VIDEO
FROM EDIT
Q9013
Q9014
FL9013
BPF
QR9007
EE Ⓗ:ON
IC9003
Ⓗ:ON
<CLAMP VOLT>
IC9008
VREF BOTTOM
VREF TOP
H. AMP SW
1/2CLK
CLOCK DRIVE
COUNTER H GATE
CONTROL LOGIC
D/A CONVERTER/TBC
2H LINE MEMORY
1H LINE MEMORY
455BYTEx2
MULTIPLEXER
R-Y/B-Y
8BIT ENCODER
8BIT
DEMULTIPLEXER
R-Y
B-Y
D/A CONV. 1
D/A CONV. 2
Q9019~Q9022
BUFFER
Q9015~Q9018
<R-Y>
<B-Y>
FL9012
L. P. F. 1. 5MHz
Q9010
Q9011, Q9027
R-Y LEVEL
VR9003
Q9026
REG 5V
VR9006
W. B2
4. 43MHz
P9001 P3003 9
REF OSC
IC9002
PHASE CONTROL
CLAMP & WB
R-Y MOD
B-Y MOD
MIX
LEVEL ADJ.
VR9005
W. B1
VR9004
DIG C LEVEL

01-35 PLAY
p-p (20μsec. div)

IC9004-3 PLAY
3.7Vp-p (20μsec. div)

IC9004-12, 13, 14, 15, 16, 17, 18, 19 PLAY
3.5Vp-p (20μsec. div)

IC9001-22 PLAY
3.5Vp-p (20μsec. div)

IC9007-26 PLAY
1.0Vp-p (20μsec. div)

IC9006-4 PLAY
0.5Vp-p (20μsec. div)

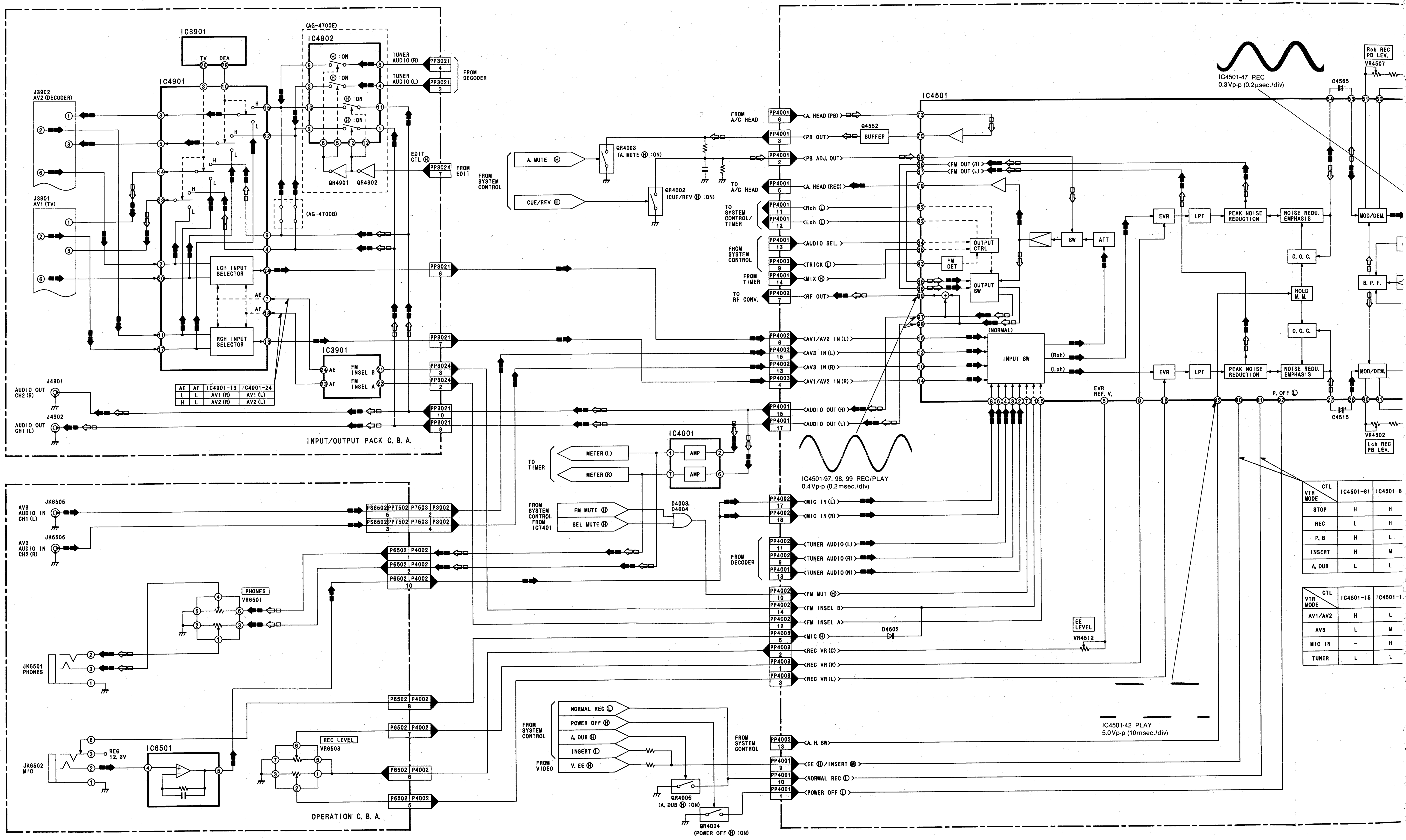
IC9008-8 PLAY
0.6Vp-p (20μsec. div)

IC9008-6 PLAY
0.4Vp-p (20μsec. div)

IC9002-14 PLAY
0.2Vp-p (20μsec. div)

3-7. Hi-Fi AUDIO BLOCK DIAGRAM

MAIN SIGNAL PA

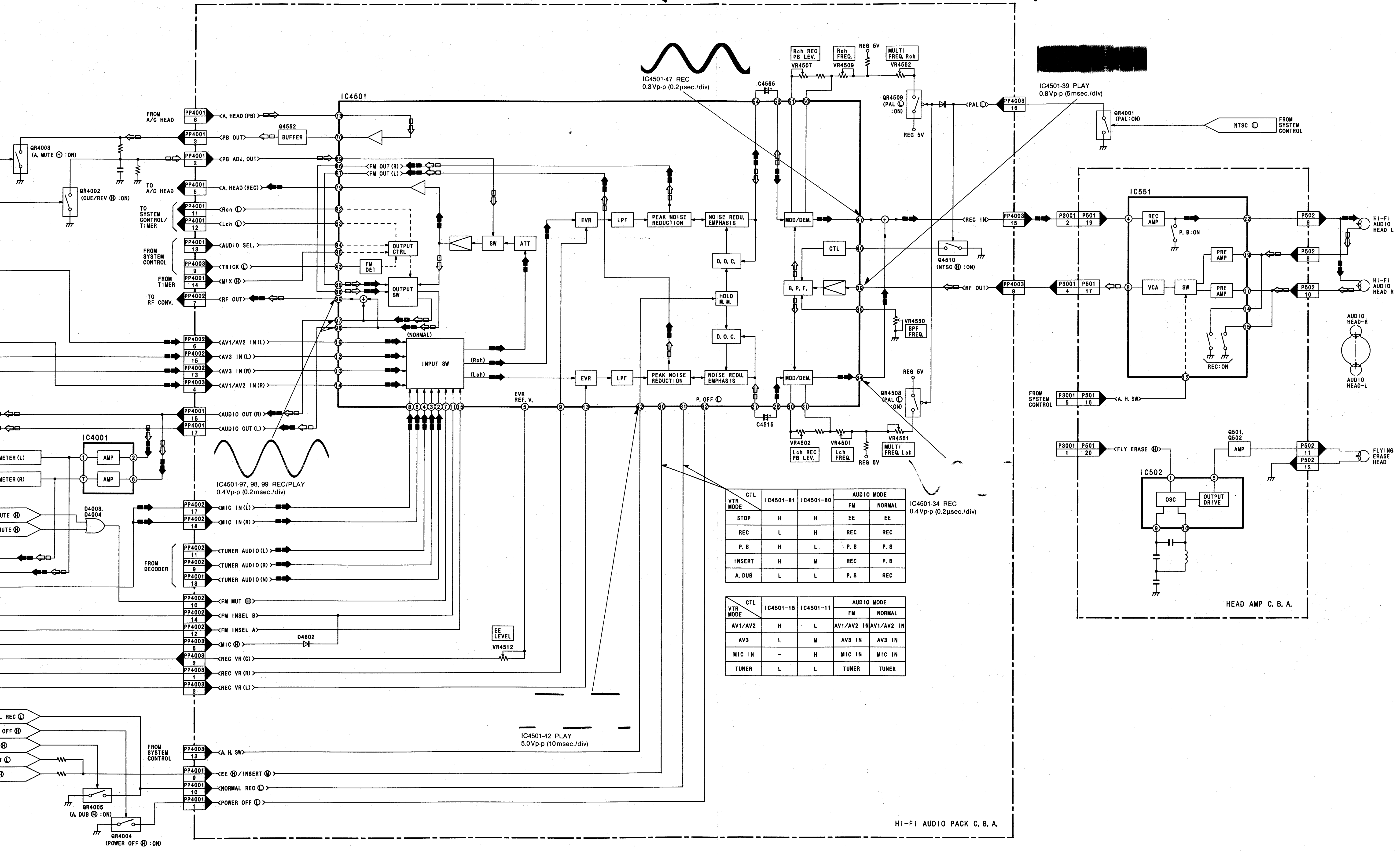

IC3901
TV
DEA
IC4901
J3902
AV2 (DECODER)
J3901
AV1 (TV)
(AG-4700E)
IC4902
Ⓗ :ON
TUNER AUDIO (R)
TUNER AUDIO (L)
PP3021
FROM DECODER
EDIT CTL Ⓗ
PP3024
FROM EDIT
QR4901
QR4902
(AG-4700B)
LCH INPUT SELECTOR
RCH INPUT SELECTOR
AE
AF
IC3901
FM INSEL B
FM INSEL A
J4901
AUDIO OUT CH2 (R)
J4902
AUDIO OUT CH1 (L)
INPUT/OUTPUT PACK C. B. A.
FROM SYSTEM CONTROL
A. MUTE Ⓗ
CUE/REV Ⓗ
QR4003
(A. MUTE Ⓗ :ON)
QR4002
(CUE/REV Ⓗ :ON)
FROM A/C HEAD
TO A/C HEAD
TO SYSTEM CONTROL/ TIMER
FROM SYSTEM CONTROL
FROM TIMER
TO RF CONV.
PP4001
PP4002
PP4003
A. HEAD (PB)
PB OUT
PB ADJ. OUT
A. HEAD (REC)
Rch Ⓛ
Lch Ⓛ
AUDIO SEL.
TRICK Ⓛ
MIX Ⓗ
RF OUT
AV1/AV2 IN (L)
AV3 IN (L)
AV3 IN (R)
AV1/AV2 IN (R)
AUDIO OUT (R)
AUDIO OUT (L)
Q4552
BUFFER
IC4501
FM OUT (R)
FM OUT (L)
OUTPUT CTRL
FM DET
OUTPUT SW
SW
ATT
(NORMAL)
INPUT SW
(Rch)
(Lch)
EVR
LPF
PEAK NOISE REDUCTION
NOISE REDU. EMPHASIS
D. O. C.
HOLD M. M.
B. P. F.
MOD/DEM.
EVR REF. V.
P. OFF Ⓛ
C4565
C4515
Rch REC PB LEV.
VR4507
Lch REC PB LEV.
VR4502
IC4501-47 REC
0.3Vp-p (0.2μsec./div)
IC4501-97, 98, 99 REC/PLAY
0.4Vp-p (0.2msec./div)
IC4501-42 PLAY
5.0Vp-p (10msec./div)
IC4001
AMP
TO TIMER
METER (L)
METER (R)
FROM SYSTEM CONTROL FROM IC7401
FM MUTE Ⓗ
SEL MUTE Ⓗ
D4003, D4004
MIC IN (L)
MIC IN (R)
FROM DECODER
TUNER AUDIO (L)
TUNER AUDIO (R)
TUNER AUDIO (N)
FM MUT Ⓗ
FM INSEL B
FM INSEL A
MIC Ⓗ
REC VR (C)
REC VR (R)
REC VR (L)
D4602
EE LEVEL
VR4512
AV3 AUDIO IN CH1 (L)
JK6505
AV3 AUDIO IN CH2 (R)
JK6506
PS6502
PP7502
P7503
P3002
P6502
P4002
PHONES
VR6501
JK6501 PHONES
JK6502 MIC
REG 12. 3V
IC6501
REC LEVEL
VR6503
OPERATION C. B. A.
FROM SYSTEM CONTROL
FROM VIDEO
NORMAL REC Ⓛ
POWER OFF Ⓗ
A. DUB Ⓗ
INSERT Ⓛ
V. EE Ⓗ
QR4005
(A. DUB Ⓗ :ON)
QR4004
(POWER OFF Ⓗ :ON)
A. H. SW
EE Ⓗ/INSERT Ⓜ
NORMAL REC Ⓛ
POWER OFF Ⓛ

AE	AF	IC4901-13	IC4901-24
L	L	AV1 (R)	AV1 (L)
H	L	AV2 (R)	AV2 (L)

CTL / VTR MODE	IC4501-81	IC4501-8
STOP	H	H
REC	L	H
P. B	H	L
INSERT	H	M
A. DUB	L	L

CTL / VTR MODE	IC4501-15	IC4501-1
AV1/AV2	H	L
AV3	L	M
MIC IN	–	H
TUNER	L	L

◀■ MAIN SIGNAL PATH IN REC MODE ◁□ MAIN SIGNAL PATH IN PLAYBACK MODE


IC4501
IC4001
IC551
IC502
FROM A/C HEAD
TO A/C HEAD
TO SYSTEM CONTROL/ TIMER
FROM SYSTEM CONTROL
FROM TIMER
TO RF CONV.
FROM DECODER
QR4003 (A. MUTE Ⓗ :ON)
QR4002 (CUE/REV Ⓗ :ON)
QR4005 (A. DUB Ⓗ :ON)
QR4004 (POWER OFF Ⓗ :ON)
Q4552 BUFFER
<A. HEAD (PB)>
<PB OUT>
<PB ADJ. OUT>
<A. HEAD (REC)>
<Rch Ⓛ>
<Lch Ⓛ>
<AUDIO SEL.>
<TRICK Ⓛ>
<MIX Ⓗ>
<RF OUT>
<FM OUT (R)>
<FM OUT (L)>
<AV1/AV2 IN (L)>
<AV3 IN (L)>
<AV3 IN (R)>
<AV1/AV2 IN (R)>
<AUDIO OUT (R)>
<AUDIO OUT (L)>
<MIC IN (L)>
<MIC IN (R)>
<TUNER AUDIO (L)>
<TUNER AUDIO (R)>
<TUNER AUDIO (N)>
<FM MUT Ⓗ>
<FM INSEL B>
<FM INSEL A>
<MIC Ⓗ>
<REC VR (C)>
<REC VR (R)>
<REC VR (L)>
<A. H. SW>
<EE Ⓗ/INSERT Ⓜ>
<NORMAL REC Ⓛ>
<POWER OFF Ⓛ>
METER (L)
METER (R)
D4003, D4004
D4602
OUTPUT CTRL
FM DET
OUTPUT SW
INPUT SW
(NORMAL)
(Rch)
(Lch)
SW
ATT
EVR
LPF
PEAK NOISE REDUCTION
NOISE REDU. EMPHASIS
D. O. C.
HOLD M. M.
MOD/DEM.
CTL
B. P. F.
EVR REF. V.
P. OFF Ⓛ
EE LEVEL
VR4512
Rch REC PB LEV.
VR4507
Rch FREQ.
VR4509
REG 5V
MULTI FREQ. Rch
VR4552
C4565
QR4509 (PAL Ⓛ :ON)
<PAL Ⓛ>
<REC IN>
<RF OUT>
Q4510 (NTSC Ⓗ :ON)
VR4550 BPF FREQ.
QR4508 (PAL Ⓛ :ON)
C4515
VR4502 Lch REC PB LEV.
VR4501 Lch FREQ.
VR4551 MULTI FREQ. Lch
PP4001
PP4002
PP4003
P3001
P501
P502
QR4001 (PAL :ON)
NTSC Ⓛ
FROM SYSTEM CONTROL
REC AMP
P. B:ON
PRE AMP
VCA
REC:ON
HI-FI AUDIO HEAD L
HI-FI AUDIO HEAD R
AUDIO HEAD-R
AUDIO HEAD-L
<A. H. SW>
<FLY ERASE Ⓗ>
Q501, Q502
AMP
OSC
OUTPUT DRIVE
FLYING ERASE HEAD
HEAD AMP C. B. A.
Hi-Fi AUDIO PACK C. B. A.

[redacted]

IC4501-47 REC
0.3Vp-p (0.2µsec./div)

IC4501-39 PLAY
0.8Vp-p (5msec./div)

IC4501-97, 98, 99 REC/PLAY
0.4Vp-p (0.2msec./div)

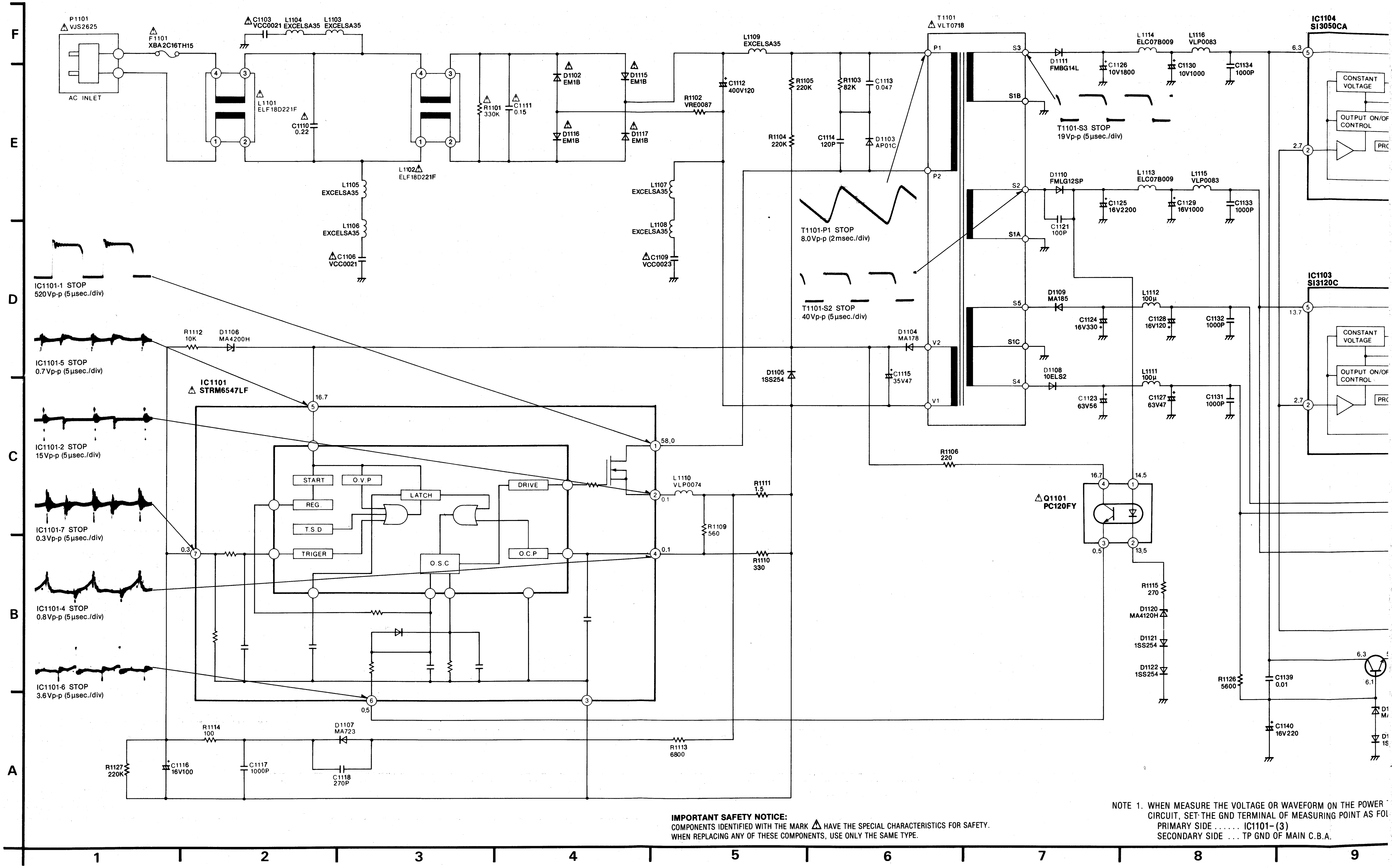
IC4501-34 REC
0.4Vp-p (0.2µsec./div)

IC4501-42 PLAY
5.0Vp-p (10msec./div)

CTL / VTR MODE	IC4501-81	IC4501-80	AUDIO MODE	
			FM	NORMAL
STOP	H	H	EE	EE
REC	L	H	REC	REC
P. B	H	L	P. B	P. B
INSERT	H	M	REC	P. B
A. DUB	L	L	P. B	REC

CTL / VTR MODE	IC4501-15	IC4501-11	AUDIO MODE	
			FM	NORMAL
AV1/AV2	H	L	AV1/AV2 IN	AV1/AV2 IN
AV3	L	M	AV3 IN	AV3 IN
MIC IN	–	H	MIC IN	MIC IN
TUNER	L	L	TUNER	TUNER

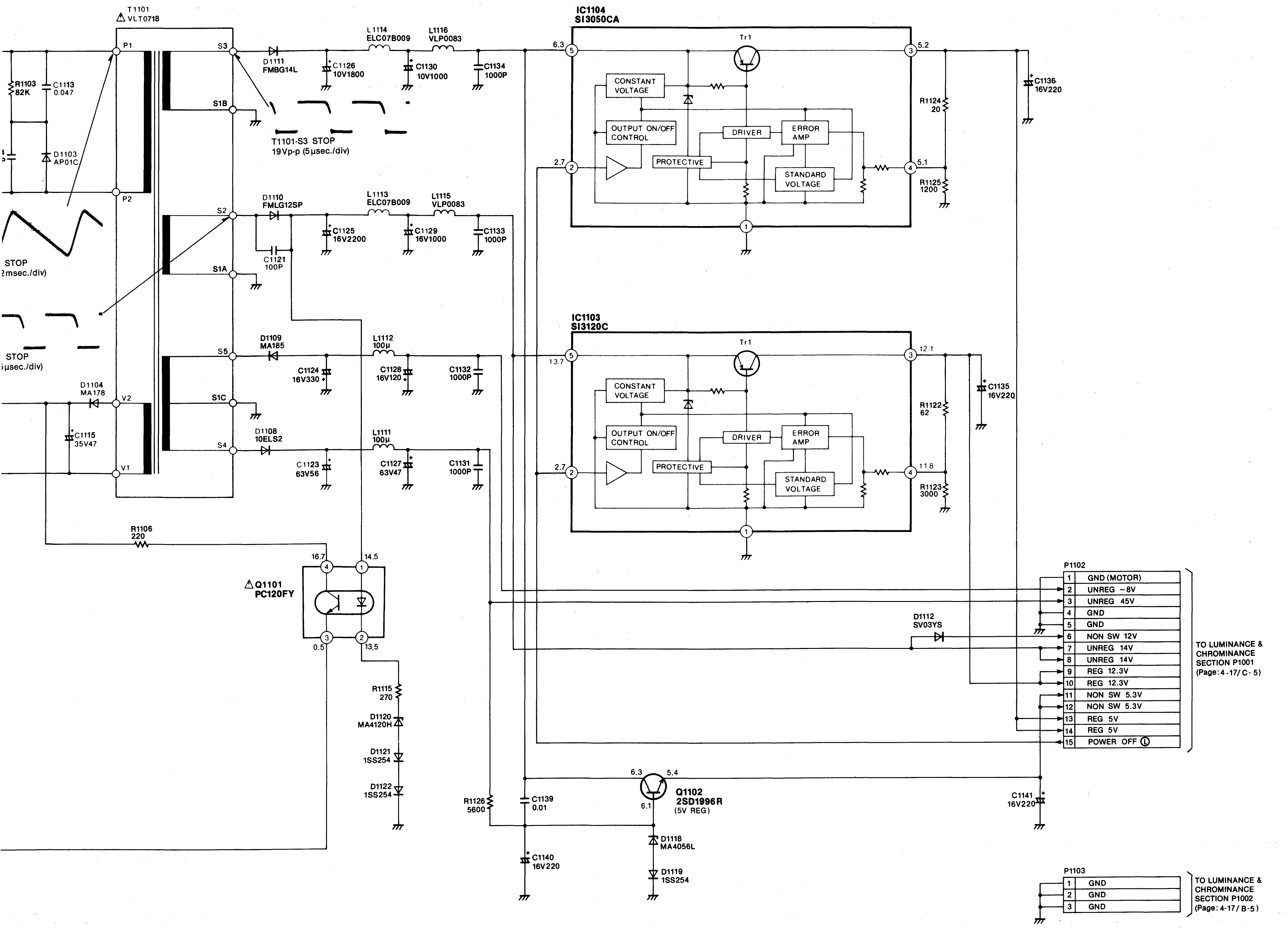
SECTION 4
SCHEMATIC DIAGRAMS
4-1. POWER SCHEMATIC DIAGRAM


P1101
⚠ VJS2625
AC INLET
⚠ F1101
XBA2C16TH15
⚠ C1103
VCC0021
L1104
EXCELSA35
L1103
EXCELSA35
⚠ L1101
ELF18D221F
⚠ C1110
0.22
L1105
EXCELSA35
L1106
EXCELSA35
⚠ C1106
VCC0021
L1102⚠
ELF18D221F
⚠ R1101
330K
⚠ C1111
0.15
⚠ D1102
EM1B
⚠ D1116
EM1B
⚠ D1115
EM1B
⚠ D1117
EM1B
R1102
VRE0087
L1107
EXCELSA35
L1108
EXCELSA35
⚠ C1109
VCC0023
L1109
EXCELSA35
C1112
400V120
R1105
220K
R1104
220K
R1103
82K
C1113
0.047
C1114
120P
D1103
AP01C
T1101
⚠ VLT0718
P1
P2
V2
V1
S3
S1B
S2
S1A
S5
S1C
S4
T1101-P1 STOP
8.0Vp-p (2msec./div)
T1101-S2 STOP
40Vp-p (5μsec./div)
T1101-S3 STOP
19Vp-p (5μsec./div)
D1111
FMBG14L
C1126
10V1800
L1114
ELC07B009
C1130
10V1000
L1116
VLP0083
C1134
1000P
D1110
FMLG12SP
C1121
100P
C1125
16V2200
L1113
ELC07B009
C1129
16V1000
L1115
VLP0083
C1133
1000P
D1109
MA185
C1124
16V330
L1112
100μ
C1128
16V120
C1132
1000P
D1108
10ELS2
C1123
63V56
L1111
100μ
C1127
63V47
C1131
1000P
IC1104
SI3050CA
IC1103
SI3120C
CONSTANT VOLTAGE
OUTPUT ON/OF
CONTROL
PRO
6.3
2.7
13.7
2.7
D1104
MA178
C1115
35V47
D1105
1SS254
R1106
220
⚠ Q1101
PC120FY
16.7
14.5
0.5
13.5
R1115
270
D1120
MA4120H
D1121
1SS254
D1122
1SS254
R1126
5600
C1139
0.01
C1140
16V220
6.3
6.1
IC1101-1 STOP
520Vp-p (5μsec./div)
IC1101-5 STOP
0.7Vp-p (5μsec./div)
IC1101-2 STOP
15Vp-p (5μsec./div)
IC1101-7 STOP
0.3Vp-p (5μsec./div)
IC1101-4 STOP
0.8Vp-p (5μsec./div)
IC1101-6 STOP
3.6Vp-p (5μsec./div)
R1112
10K
D1106
MA4200H
IC1101
⚠ STRM6547LF
16.7
58.0
0.1
0.1
0.3
0,5
START
O.V.P
REG.
LATCH
DRIVE
T.S.D
TRIGER
O.S.C
O.C.P
L1110
VLP0074
R1111
1.5
R1109
560
R1110
330
R1114
100
D1107
MA723
C1118
270P
R1113
6800
R1127
220K
C1116
16V100
C1117
1000P
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER
CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOL
PRIMARY SIDE ...... IC1101-(3)
SECONDARY SIDE ... TP GND OF MAIN C.B.A.

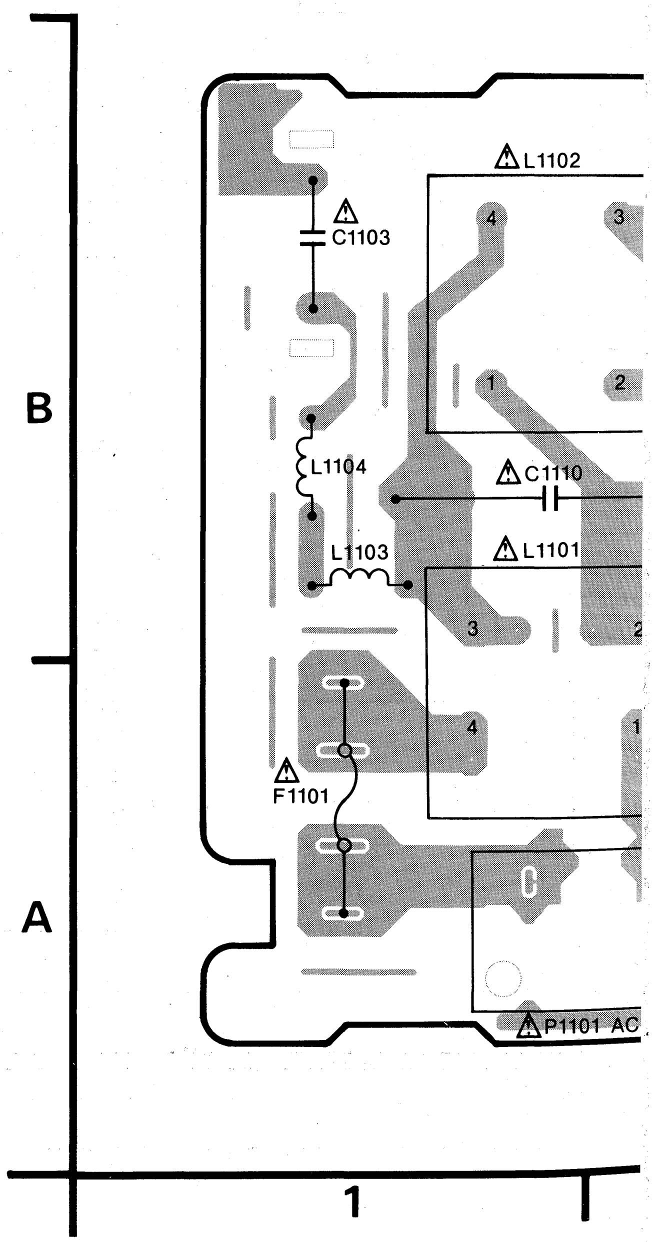
4-2. POWER C.B.A. (VEP01558C)


T1101
⚠VLT0718
P1
P2
S3
S1B
S2
S1A
S5
S1C
S4
V2
V1
R1103
82K
C1113
0.047
D1103
AP01C
STOP
2msec./div)
STOP
μsec./div)
D1104
MA178
C1115
35V47
D1111
FMBG14L
C1126
10V1800
L1114
ELC07B009
L1116
VLP0083
C1130
10V1000
C1134
1000P
T1101-S3 STOP
19Vp-p (5μsec./div)
D1110
FMLG12SP
C1121
100P
C1125
16V2200
L1113
ELC07B009
L1115
VLP0083
C1129
16V1000
C1133
1000P
D1109
MA185
C1124
16V330
L1112
100μ
C1128
16V120
C1132
1000P
D1108
10ELS2
C1123
63V56
L1111
100μ
C1127
63V47
C1131
1000P
IC1104
SI3050CA
Tr1
CONSTANT VOLTAGE
OUTPUT ON/OFF CONTROL
DRIVER
ERROR AMP
PROTECTIVE
STANDARD VOLTAGE
6.3
2.7
5.2
5.1
R1124
20
R1125
1200
C1136
16V220
IC1103
SI3120C
13.7
12.1
11.8
R1122
62
R1123
3000
C1135
16V220
R1106
220
⚠Q1101
PC120FY
16.7
14.5
0.5
13.5
R1115
270
D1120
MA4120H
D1121
1SS254
D1122
1SS254
R1126
5600
C1139
0.01
C1140
16V220
6.3
5.4
6.1
Q1102
2SD1996R
(5V REG)
D1118
MA4056L
D1119
1SS254
C1141
16V220
D1112
SV03YS
P1102
1 GND (MOTOR)
2 UNREG −8V
3 UNREG 45V
4 GND
5 GND
6 NON SW 12V
7 UNREG 14V
8 UNREG 14V
9 REG 12.3V
10 REG 12.3V
11 NON SW 5.3V
12 NON SW 5.3V
13 REG 5V
14 REG 5V
15 POWER OFF Ⓛ
TO LUMINANCE & CHROMINANCE SECTION P1001 (Page: 4-17/C-5)
P1103
1 GND
2 GND
3 GND
TO LUMINANCE & CHROMINANCE SECTION P1002 (Page: 4-17/B-5)

AVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
USE ONLY THE SAME TYPE.

NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
PRIMARY SIDE ...... IC1101-(3)
SECONDARY SIDE ... TP GND OF MAIN C.B.A.

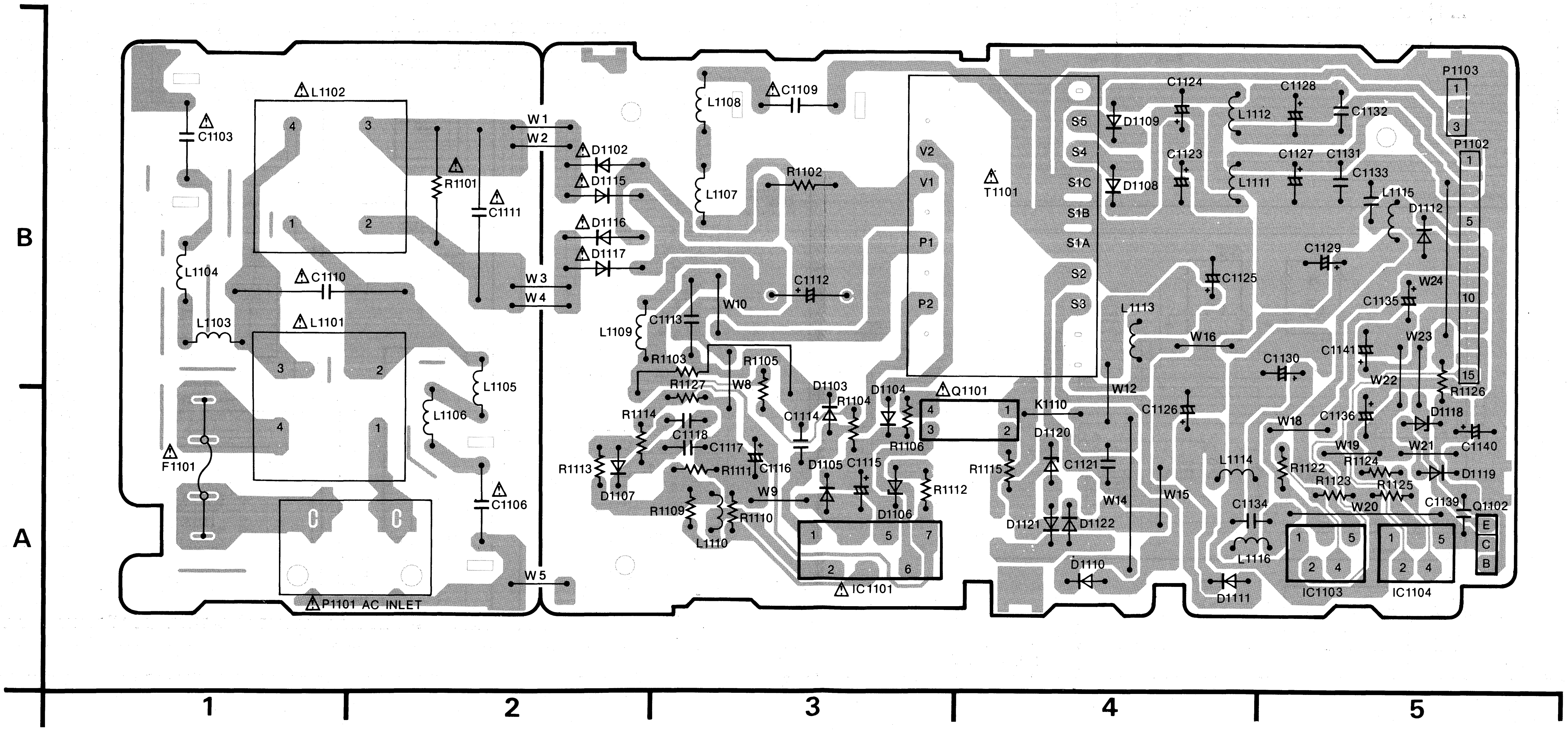
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.


B
A
1
⚠L1102
⚠C1103
L1104
⚠C1110
L1103
⚠L1101
⚠F1101
⚠P1101 AC

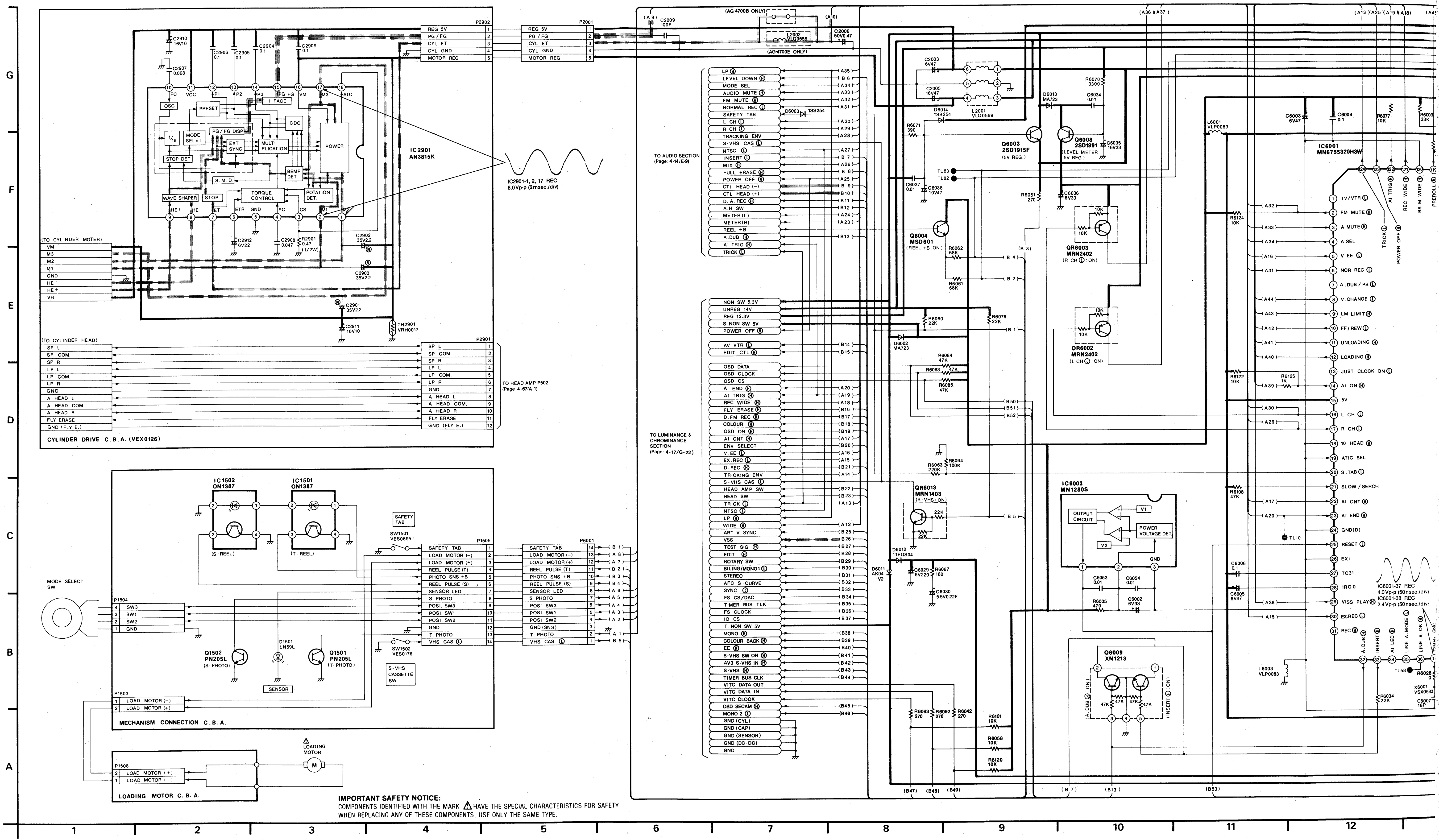
4-2. POWER C.B.A. (VEP01558C)

POWER C.B.A.	
Transistor	
Q1101	A-4
Q1102	A-5
Integrated Circuit	
IC1101	A-3
IC1103	A-5
IC1104	A-5
Connector	
P1101	A-1
P1102	B-5
P1103	B-5

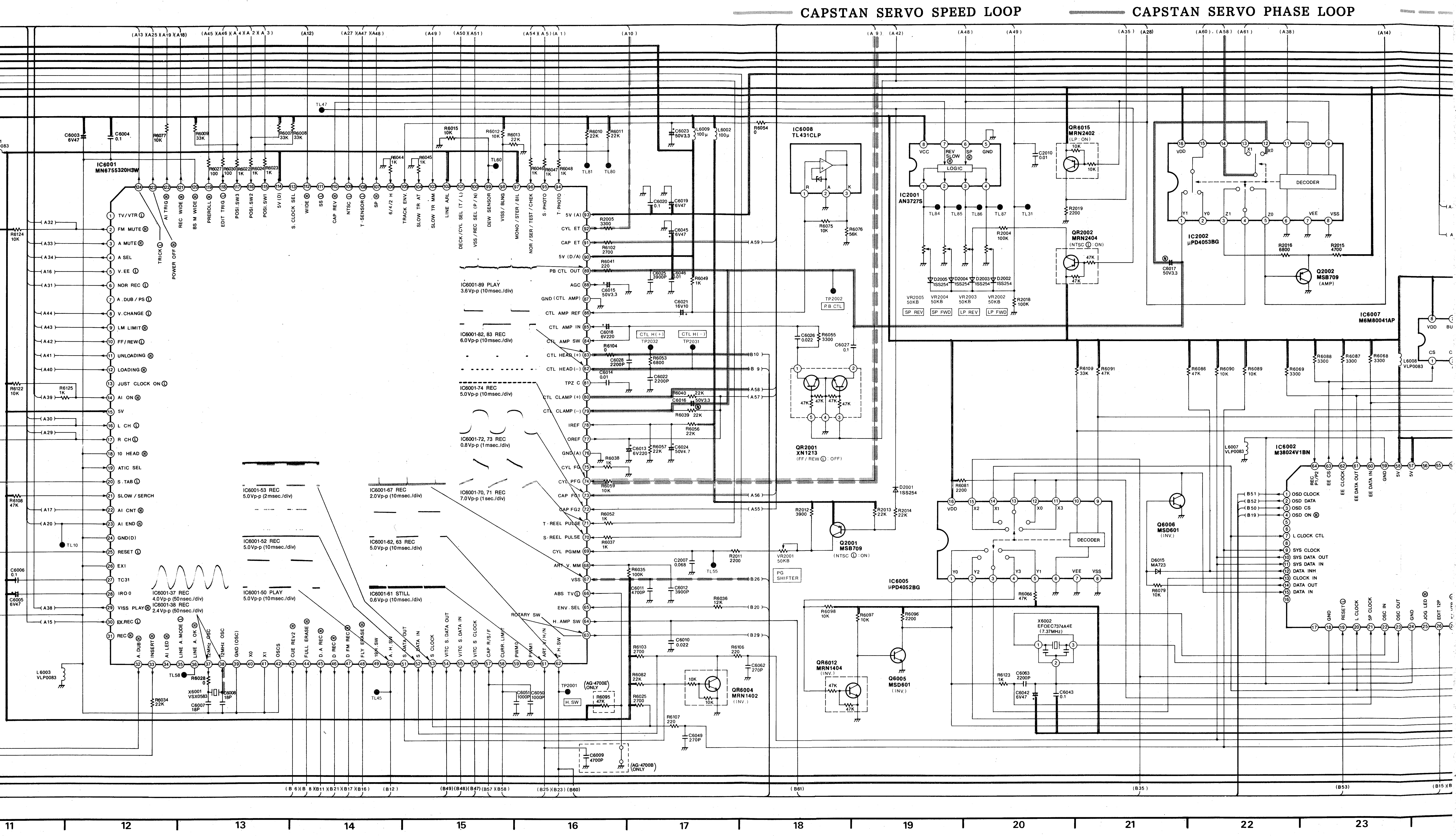
ADDRESS INFORMATION

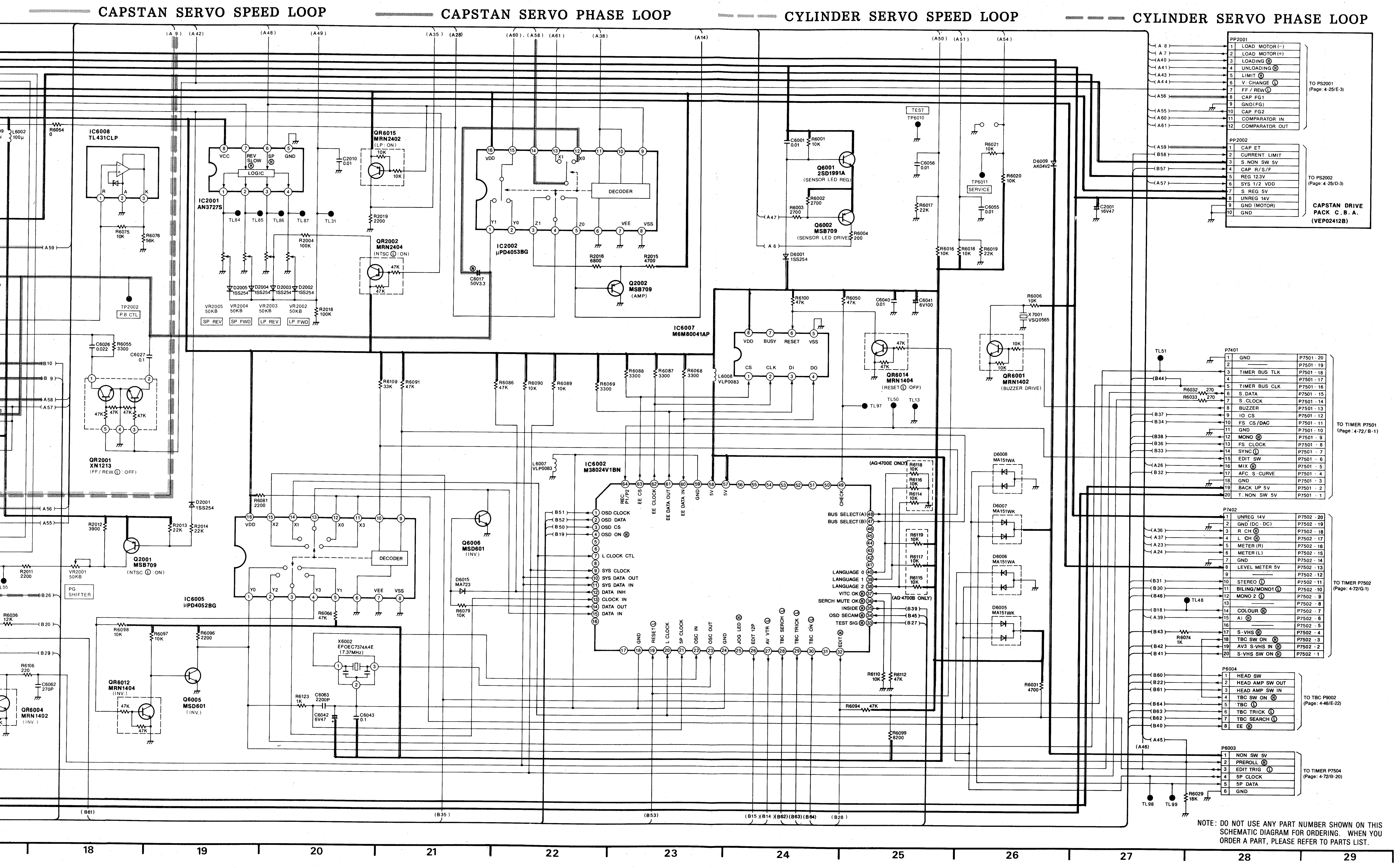

B
A
1
2
3
4
5
C1103
F1101
L1104
L1103
L1102
L1101
C1110
R1101
C1111
L1105
L1106
C1106
P1101 AC INLET
W1
W2
W3
W4
W5
D1102
D1115
D1116
D1117
L1108
L1107
C1109
R1102
C1112
C1113
L1109
W10
R1103
R1127
R1105
W8
R1114
C1118
C1117
R1111
C1116
R1113
D1107
R1109
R1110
L1110
W9
D1103
R1104
C1114
D1104
R1106
D1105
C1115
D1106
R1112
IC1101
Q1101
T1101
V2
V1
P1
P2
S5
S4
S1C
S1B
S1A
S2
S3
K1110
D1120
R1115
C1121
W14
W15
D1121
D1122
D1110
W12
C1126
L1113
W16
D1109
D1108
C1124
C1123
L1112
L1111
C1128
C1127
C1132
C1131
C1133
C1125
C1129
C1130
L1114
R1122
C1134
L1116
D1111
W18
W19
R1124
R1123
W20
IC1103
IC1104
C1136
C1141
C1135
W24
W23
W22
L1115
D1112
P1103
P1102
R1126
D1118
W21
C1140
R1125
D1119
C1139
Q1102
E
C
B

4-3. SYSTEM CONTROL & SERVO SECTION IN MAIN SCHEMATIC DIAGRAM


IC2901
AN3815K
IC2901-1, 2, 17 REC
8.0Vp-p (2msec./div)
OSC
PRESET
1/16
MODE SELET
PG / FG DISP
EXT. SYNC
MULTI PLICATION
POWER
CDC
I. FACE
BEMF DET
S. M. D.
WAVE SHAPER
STOP
TORQUE CONTROL
ROTATION DET.
STOP DET
P2902
REG 5V
PG / FG
CYL ET
CYL GND
MOTOR REG
P2001
(TO CYLINDER MOTER)
VM
M3
M2
M1
GND
HE−
HE+
VH
(TO CYLINDER HEAD)
P2901
SP L
SP COM.
SP R
LP L
LP COM.
LP R
GND
A HEAD L
A HEAD COM.
A HEAD R
FLY ERASE
GND (FLY E.)
TO HEAD AMP P502 (Page: 4-67/A-1)
CYLINDER DRIVE C.B.A. (VEX0126)
TH2901 VRH0017
IC1502 ON1387
IC1501 ON1387
(S-REEL)
(T-REEL)
SAFETY TAB
SW1501 VES0695
P1505
SAFETY TAB
LOAD MOTOR (−)
LOAD MOTOR (+)
REEL PULSE (T)
PHOTO SNS +B
REEL PULSE (S)
SENSOR LED
S. PHOTO
POSI. SW3
POSI. SW1
POSI. SW2
GND
T. PHOTO
VHS CAS
P6001
MODE SELECT SW
P1504
SW3
SW1
SW2
GND
Q1502 PN205L (S-PHOTO)
D1501 LN59L
SENSOR
Q1501 PN205L (T-PHOTO)
SW1502 VES0176
S-VHS CASSETTE SW
P1503
LOAD MOTOR (−)
LOAD MOTOR (+)
MECHANISM CONNECTION C.B.A.
LOADING MOTOR
P1508
LOADING MOTOR C.B.A.
(AG-4700B ONLY)
(AG-4700E ONLY)
L2002 VLQ0556
TO AUDIO SECTION (Page: 4-14/E-9)
TO LUMINANCE & CHROMINANCE SECTION (Page: 4-17/G-22)
LP
LEVEL DOWN
MODE SEL
AUDIO MUTE
FM MUTE
NORMAL REC
SAFETY TAB
L CH
R CH
TRACKING ENV
S-VHS CAS
NTSC
INSERT
MIX
FULL ERASE
POWER OFF
CTL HEAD (−)
CTL HEAD (+)
D. A. REC
A.H SW
METER (L)
METER (R)
REEL +B
A. DUB
AI TRIG
TRICK
NON SW 5.3V
UNREG 14V
REG 12.3V
S. NON SW 5V
POWER OFF
AV VTR
EDIT CTL
OSD DATA
OSD CLOCK
OSD CS
AI END
AI TRIG
REC WIDE
FLY ERASE
D. FM REC
COLOUR
OSD ON
AI CNT
ENV SELECT
V. EE
EX. REC
D. REC
TRICKING ENV.
S-VHS CAS
HEAD AMP SW
HEAD SW
TRICK
NTSC
LP
WIDE
ART V SYNC
VSS
TEST SIG
EDIT
ROTARY SW
BILING/MONO1
STEREO
AFC S CURVE
SYNC
FS CS/DAC
TIMER BUS TLK
FS CLOCK
IO CS
T. NON SW 5V
MONO
COLOUR BACK
EE
S-VHS SW ON
AV3 S-VHS IN
S-VHS
TIMER BUS CLK
VITC DATA OUT
VITC DATA IN
VITC CLOCK
OSD SECAM
MONO 2
GND (CYL)
GND (CAP)
GND (SENSOR)
GND (DC-DC)
GND
Q6003 2SD1915F (5V REG.)
Q6008 2SD1991 (LEVEL METER 5V REG.)
L2001 VLQ0569
Q6004 MSD601 (REEL +B:ON)
QR6003 MRN2402 (R CH:ON)
QR6002 MRN2402 (L CH:ON)
QR6013 MRN1403 (S-VHS:ON)
IC6003 MN1280S
OUTPUT CIRCUIT
POWER VOLTAGE DET
Q6009 XN1213
(A.DUB:ON)
(INSERT:ON)
IC6001 MN6755320H3W
L6001 VLP0083
L6003 VLP0083
TV/VTR
FM MUTE
A MUTE
A SEL
V. EE
NOR REC
A. DUB/PS
V. CHANGE
LM LIMIT
FF/REW
UNLOADING
LOADING
JUST CLOCK ON
AI ON
5V
L CH
R CH
10 HEAD
ATIC SEL
S. TAB
SLOW / SERCH
AI CNT
AI END
GND(D)
RESET
EXI
TC31
IRO 0
VISS PLAY
EX.REC
REC
IC6001-37 REC 4.0Vp-p (50nsec./div)
IC6001-38 REC 2.4Vp-p (50nsec./div)
X6001 VSX0583
TRICK
POWER OFF
AI TRIG
REC WIDE
BS M WIDE
PREROLL
A. DUB
INSERT
AI LED
LINE A. MODE
LINE A. OK

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.


CAPSTAN SERVO SPEED LOOP
CAPSTAN SERVO PHASE LOOP
IC6001
MN6755320H3W
TV/VTR
FM MUTE
A MUTE
A SEL
V.EE
NOR REC
A.DUB/PS
V.CHANGE
LM LIMIT
FF/REW
UNLOADING
LOADING
JUST CLOCK ON
AI ON
5V
L CH
R CH
10 HEAD
ATIC SEL
S.TAB
SLOW/SERCH
AI CNT
AI END
GND(D)
RESET
EX1
TC31
IRO 0
VISS PLAY
EX.REC
REC
5V (A)
CYL ET
CAP ET
5V (D/A)
PB CTL OUT
AGC
GND (CTL AMP)
CTL AMP REF
CTL AMP IN
CTL AMP SW
CTL HEAD (+)
CTL HEAD (−)
TPZ C
CTL CLAMP (+)
CTL CLAMP (−)
IREF
OREF
GND (A)
CYL FG
CYL PFG
CAP FG1
CAP FG2
T-REEL PULSE
S-REEL PULSE
CYL PGMM
ART V.MM
VSS
ABS TV
ENV. SEL
H. AMP SW
ROTARY SW
IC6001-89 PLAY 3.6Vp-p (10msec./div)
IC6001-82, 83 REC 6.0Vp-p (10msec./div)
IC6001-74 REC 5.0Vp-p (10msec./div)
IC6001-72, 73 REC 0.8Vp-p (1msec./div)
IC6001-70, 71 REC 7.0Vp-p (1sec./div)
IC6001-53 REC 5.0Vp-p (2msec./div)
IC6001-67 REC 2.0Vp-p (10msec./div)
IC6001-52 REC 5.0Vp-p (10msec./div)
IC6001-62, 63 REC 5.0Vp-p (10msec./div)
IC6001-37 REC 4.0Vp-p (50nsec./div)
IC6001-38 REC 2.4Vp-p (50nsec./div)
IC6001-50 PLAY 5.0Vp-p (10msec./div)
IC6001-61 STILL 0.6Vp-p (10msec./div)
X6001 VSX0583
L6003 VLP0083
TP2001 H.SW
(AG-4700E) ONLY
(AG-4700B) ONLY
IC6008 TL431CLP
QR2001 XN1213 (FF/REW Ⓛ : OFF)
TP2002 P.B CTL
CTL H(+) TP2032
CTL H(−) TP2031
IC2001 AN3722S
VCC
REV SLOW
SP
GND
LOGIC
D2005 1SS254
D2004 1SS254
D2003 1SS254
D2002 1SS254
VR2005 50KB
VR2004 50KB
VR2003 50KB
VR2002 50KB
SP REV
SP FWD
LP REV
LP FWD
QR6015 MRN2402 (LP : ON)
QR2002 MRN2404 (NTSC Ⓛ : ON)
IC2002 μPD4053BG
DECODER
Q2002 MSB709 (AMP)
IC6007 M6M80041AP
L6008 VLP0083
Q2001 MSB709 (NTSC Ⓛ : ON)
VR2001 50KB
PG SHIFTER
D2001 1SS254
IC6005 μPD4052BG
QR6012 MRN1404 (INV.)
Q6005 MSD601 (INV.)
QR6004 MRN1402 (INV.)
Q6006 MSD601 (INV.)
D6015 MA723
X6002 EFOEC7374A4E (7.37MHz)
L6007 VLP0083
IC6002 M38024V1BN
OSD CLOCK
OSD DATA
OSD CS
OSD ON
L CLOCK CTL
SYS CLOCK
SYS DATA OUT
SYS DATA IN
DATA INH
CLOCK IN
DATA OUT
DATA IN
11
12
13
14
15
16
17
18
19
20
21
22
23


CAPSTAN SERVO SPEED LOOP
CAPSTAN SERVO PHASE LOOP
CYLINDER SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP
IC6008 TL431CLP
IC2001 AN3727S
QR6015 MRN2402 (LP: ON)
QR2002 MRN2404 (NTSC Ⓛ: ON)
IC2002 μPD4053BG
Q2002 MSB709 (AMP)
Q6001 2SD1991A (SENSOR LED REG)
Q6002 MSB709 (SENSOR LED DRIVE)
TEST TP6010
SERVICE TP6011
D6009 AK04V2
C2001 16V47
PP2001
1 LOAD MOTOR (−)
2 LOAD MOTOR (+)
3 LOADING Ⓗ
4 UNLOADING Ⓗ
5 LIMIT Ⓗ
6 V·CHANGE Ⓛ
7 FF / REW Ⓛ
8 CAP FG1
9 GND (FG)
10 CAP FG2
11 COMPARATOR IN
12 COMPARATOR OUT
TO PS2001 (Page: 4-25/E-3)
PP2002
1 CAP ET
2 CURRENT LIMIT
3 S.NON SW 5V
4 CAP R/S/F
5 REG 12.3V
6 SYS 1/2 VDD
7 S.REG 5V
8 UNREG 14V
9 GND (MOTOR)
10 GND
TO PS2002 (Page: 4-25/D-3)
CAPSTAN DRIVE PACK C.B.A. (VEP02412B)
IC6007 M6M80041AP
QR6014 MRN1404 (RESET Ⓛ: OFF)
QR6001 MRN1402 (BUZZER DRIVE)
X7001 VSQ0565
TP2002 P.B CTL
SP REV
SP FWD
LP REV
LP FWD
QR2001 XN1213 (FF / REW Ⓛ : OFF)
Q2001 MSB709 (NTSC Ⓛ : ON)
PG SHIFTER
IC6005 μPD4052BG
Q6006 MSD601 (INV.)
Q6005 MSD601 (INV.)
QR6012 MRN1404 (INV.)
QR6004 MRN1402 (INV.)
X6002 EFOEC7374A4E (7.37MHz)
IC6002 M38024V1BN
OSD CLOCK
OSD DATA
OSD CS
OSD ON Ⓗ
L CLOCK CTL
SYS CLOCK
SYS DATA OUT
SYS DATA IN
DATA INH
CLOCK IN
DATA OUT
DATA IN
BUS SELECT(A)
BUS SELECT(B)
LANGUAGE 0
LANGUAGE 1
LANGUAGE 2
VITC OK Ⓗ
SERCH MUTE OK Ⓗ
INSIDE Ⓗ
OSD SECAM Ⓗ
TEST SIG Ⓗ
(AG-4700E ONLY)
(AG-4700B ONLY)
D6008 MA151WA
D6007 MA151WK
D6006 MA151WA
D6005 MA151WK
P7401
1 GND
3 TIMER BUS TLK
5 TIMER BUS CLK
6 S.DATA
7 S.CLOCK
8 BUZZER
9 IO CS
10 FS CS/DAC
11 GND
12 MONO Ⓗ
13 FS CLOCK
14 SYNC Ⓛ
15 EDIT SW
16 MIX Ⓗ
17 AFC S-CURVE
18 GND
19 BACK UP 5V
20 T.NON SW 5V
TO TIMER P7501 (Page: 4-72/B-1)
P7402
1 UNREG 14V
2 GND (DC·DC)
3 R CH Ⓗ
4 L CH Ⓗ
5 METER (R)
6 METER (L)
7 GND
8 LEVEL METER 5V
10 STEREO Ⓛ
11 BILING/MONO1 Ⓛ
12 MONO 2 Ⓛ
14 COLOUR Ⓗ
15 AI Ⓗ
17 S-VHS Ⓗ
18 TBC SW ON Ⓗ
19 AV3 S-VHS IN Ⓗ
20 S-VHS SW ON Ⓗ
TO TIMER P7502 (Page: 4-72/G-1)
P6004
1 HEAD SW
2 HEAD AMP SW OUT
3 HEAD AMP SW IN
4 TBC SW ON Ⓗ
5 TBC Ⓛ
6 TBC TRICK Ⓛ
7 TBC SEARCH Ⓛ
8 EE Ⓗ
TO TBC P9002 (Page: 4-46/E-22)
P6003
1 NON SW 5V
2 PREROLL Ⓗ
3 EDIT TRIG Ⓛ
4 SP CLOCK
5 SP DATA
6 GND
TO TIMER P7504 (Page: 4-72/B-20)
18
19
20
21
22
23
24
25
26
27
28
29

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (S-VHS: SP MODE)

REF. NO.	IC2001							
MODE	1	2	3	4	5	6	7	8
STOP	0	5.0	0	0	0	5.0	0	5.0
PLAY	0	5.0	0	0	0	5.0	0	5.0
REC	0	4.9	0	0	0	5.0	0	5.0
F.F	0	5.0	0	0	0	5.0	0	5.0
REW	5.0	0	0	0	0	5.0	5.0	5.0

REF. NO.	IC2002															
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
STOP	2.5	2.3	1.4	1.4	1.0	0	0	0	5.0	0	0	2.6	0	2.6	2.3	5.2
PLAY	2.6	2.3	2.6	2.6	2.0	0	0	0	5.0	0	0	2.5	0	2.5	2.3	5.2
REC	2.5	2.3	1.1	1.1	0.6	0	0	0	5.0	0	0	2.6	0	2.6	2.3	5.2
F.F	2.5	2.3	1.6	1.6	1.0	0	0	0	5.0	0	0	2.6	0	2.6	2.3	5.2
REW	2.5	2.3	1.2	1.2	0.6	0	0	0	5.0	0	0	2.6	0	2.6	2.3	5.2

REF. NO.	IC2901																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
STOP	14.8	14.6	0.1	1.2	0.1	2.6	2.5	2.6	2.5	2.7	5.2	3.8	3.9	3.8	1.2	14.4	14.6	0.1
PLAY	14.5	13.9	0.1	1.1	0.1	2.6	2.5	2.6	2.5	2.8	5.2	3.9	3.9	3.8	1.5	14.3	14.4	0.1
REC	14.8	14.7	0.1	1.2	0.1	2.6	2.5	2.6	2.5	2.8	5.2	3.9	3.9	3.9	1.4	14.3	14.4	0.1
F.F	14.1	13.8	0.1	1.1	0.1	2.6	2.5	2.6	2.5	2.8	5.2	3.9	3.8	3.8	1.5	14.3	13.7	0.1
REW	14.5	13.5	0.1	1.1	0.1	2.6	2.5	2.6	2.5	2.8	5.2	3.8	3.8	3.9	1.5	14.3	14.5	0.1

REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0.1	0	5.0	0.1	5.0	5.0	4.9	0.1	4.9	0	0	5.0	4.9	5.0	0	0	0	0	0
PLAY	0	0.1	0	5.0	5.0	5.0	5.0	4.9	0.1	4.9	0	0	5.0	4.9	5.0	0	0	0	0	0
REC	0	0.1	0	5.0	0.1	0	5.0	4.9	0.1	4.9	0	0	5.0	4.9	5.0	0	0	0	0	0
F.F	0	0.1	0	5.0	0.1	5.0	5.0	0	0.1	0	0	0	5.0	4.9	5.0	0	0	0	0	0
REW	0	0.1	0	5.0	0.1	5.0	5.0	0	0.1	0	0	0	5.0	4.9	5.0	0	0	0	0	0

REF. NO.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	5.0	0.1	5.0	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0	0	2.7	2.7	0	5.0
PLAY	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0	0	2.7	2.7	0	5.0
REC	5.0	0.1	5.0	0	5.0	0	0	0	0	4.9	5.0	0	0	5.0	5.0	0	2.7	2.7	0	5.0
F.F	5.0	0.1	5.0	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0	0	2.7	2.7	0	5.0
REW	5.0	0.1	5.0	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0	0	2.7	2.7	0	5.0

REF. NO.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0	0	0	0	0	0.1	0	0	5.0	0	1.8	0.9	4.5	4.8	5.0	4.8	2.0	0	2.6	2.5
PLAY	0	0	0	0	0	0.1	0	0	5.0	3.7	1.7	0.9	4.5	4.8	5.0	4.8	0	5.0	2.7	2.5
REC	0	0	0	5.0	5.0	5.0	5.0	0	5.0	0	1.7	0.9	4.5	4.8	5.0	4.8	0	5.0	2.6	2.5
F.F	0	0	0	0	0	0.1	0	0	5.0	0	1.7	0.8	4.5	4.8	5.0	4.8	0	5.0	5.0	2.5
REW	0	0	0	0	0	0.1	0	0	5.0	0	1.7	0.9	4.5	4.8	5.0	4.8	5.0	5.0	5.0	2.5

REF. NO.	IC6001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0	5.0	5.0	0	4.0	5.0	2.5	0.3	3.5	5.0	0	2.5	2.5	1.5	0	0	2.5	2.5	2.4	2.6
PLAY	0	3.7	5.0	0	4.0	5.0	2.5	0.3	3.7	5.0	5.0	2.5	2.5	1.5	0	0	2.5	2.5	3.0	2.5
REC	0	5.0	5.0	0	4.5	5.0	2.5	0.3	3.8	5.0	5.0	2.5	2.5	1.5	0	0	2.5	2.5	2.4	2.6
F.F	0	5.0	5.0	0	2.4	5.0	2.5	0.3	3.7	2.5	2.9	2.5	2.5	1.2	0	0	2.5	2.5	2.5	2.6
REW	0	4.0	3.6	0	2.5	5.0	2.5	0.3	3.7	2.7	2.5	2.5	2.5	1.3	0	0	2.5	2.5	2.5	2.6

REF. NO.	IC6001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	4.9	0	0	0	2.5	2.5	0	2.7	2.5	5.0	1.4	2.5	5.0	3.5	5.0	5.0	5.0	3.5	0	3.5
PLAY	5.0	0	0	0	2.5	2.5	0	3.0	2.5	5.0	2.5	2.5	5.0	4.1	5.0	5.0	5.0	3.5	0	3.5
REC	4.9	3.7	3.9	0	2.5	2.5	0	2.7	2.5	5.0	2.7	2.5	5.0	4.1	4.8	5.0	5.0	3.5	0	3.5
F.F	5.0	0	0	0	2.5	2.5	0	3.1	2.5	5.0	2.3	2.5	5.0	4.4	4.9	5.0	5.0	3.5	0	3.5
REW	5.0	0	0	0	2.5	2.5	0	3.1	2.5	5.0	2.4	2.5	5.0	4.4	4.9	5.0	5.0	3.5	0	3.5

REF. NO.	IC6001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
STOP	3.5	5.0	2.3	0	1.6	0	5.0	5.0	5.0	0	5.0	0	4.5	5.0	0	0	5.0	5.0	0	0
PLAY	3.5	5.0	2.6	0	2.7	0	5.0	0.2	5.0	0	5.0	0	4.5	5.0	0	0	5.0	5.0	0	0
REC	3.5	5.0	2.6	0	1.2	0	5.0	0.2	5.0	0	5.0	0	4.5	5.0	0	0	5.0	5.0	0	0
F.F	3.5	5.0	2.6	0	1.2	0	5.0	0.2	5.0	0	5.0	0	4.5	5.0	0	5.0	5.0	5.0	0	0
REW	3.5	5.0	2.3	0	1.2	0	5.0	0.2	5.0	5.0	5.0	0	4.5	5.0	0	5.0	5.0	5.0	0	0

REF. NO.	IC6001			
MODE	121	122	123	124
STOP	0	0	0	5.0
PLAY	0	0	0	5.0
REC	0	0	0	5.0
F.F	0	0	0	5.0
REW	0	0	0	5.0

REF. NO.	IC6002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	4.8	4.7	4.6	0	0	0	5.0	0	4.5	0.9	0.9	0	4.8	3.1	4.7	0	0	0	4.9	5.0
PLAY	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7	0	0	0	4.9	5.0
REC	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7	0	0	0	4.9	5.0
F.F	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7	0	0	0	4.9	5.0
REW	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7	0	0	0	4.9	5.0

REF. NO.	IC6002																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	5.0	2.2	2.4	0	0	0	5.0	5.0	5.0	5.0	0	0	0	0.2	0	0	4.5	0	0	0
PLAY	5.0	2.2	2.4	0	0	0	0	5.0	5.0	0	0	0	0	0.2	0	0	4.5	0	0	0
REC	5.0	2.2	2.4	0	0	0	0	5.0	5.0	5.0	0	0	0	0.2	0	0	4.5	0	0	0
F.F	5.0	2.2	2.4	0	0	0	0	5.0	5.0	5.0	0	0	0	0.2	0	0	4.5	0	0	0
REW	5.0	2.2	2.4	0	0	0	0	5.0	5.0	5.0	0	0	0	0.2	0	0	4.5	0	0	0

REF. NO.	IC6002																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	5.0	5.0	0	5.0
PLAY	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	5.0	5.0	0	5.0
REC	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	5.0	5.0	0	5.0
F.F	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	5.0	5.0	0	5.0
REW	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	5.0	5.0	0	5.0

REF. NO.	IC6002			
MODE	61	62	63	64
STOP	0.1	5.0	5.0	5.0
PLAY	0.1	5.0	5.0	5.0
REC	0.1	5.0	5.0	5.0
F.F	0.1	5.0	5.0	5.0
REW	0.1	5.0	5.0	5.0

REF. NO.	IC6003		
MODE	1	2	3
STOP	5.0	5.0	0
PLAY	5.0	5.0	0
REC	5.0	5.0	0
F.F	5.0	5.0	0
REW	5.0	5.0	0

REF. NO.	IC6005															
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
STOP	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.6	5.0	4.6	5.0
PLAY	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.6	5.0
REC	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.6	5.0
F.F	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.7	5.0
REW	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.7	5.0

REF. NO.	IC6007										IC6008		
MODE	1	2	3	4	5	6	7	8			1	2	3
STOP	5.0	5.0	0.1	5.0	0	0	5.0	5.0			2.3	0	2.9
PLAY	5.0	5.0	0.1	5.0	0	0	5.0	5.0			2.3	0	2.9
REC	5.0	5.0	0.1	5.0	0	0	5.0	5.0			2.3	0	2.9
F.F	5.0	5.0	0.1	5.0	0	0	5.0	5.0			2.3	0	2.9
REW	5.0	5.0	0.1	5.0	0	0	5.0	5.0			2.3	0	2.9

INPUT

PIN NO.
1
2
3
4
5, 6
7
8
9
10
11
12
13
14
15
16, 17
18
19

DE)

20
0
0
0
0
0
40
5.0
5.0
5.0
5.0
5.0
60
2.5
2.5
2.5
2.5
2.5
80
2.6
2.5
2.6
2.6
2.6
100
3.5
3.5
3.5
3.5
3.5
120
0
0
0
0
0

REF. NO.	IC6002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	4.8	4.7	4.6	0	0	0	5.0	0	4.5	0.9	0.9	0	4.8	3.1	4.7	0	0	0	4.9	5.0
PLAY	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7	0	0	0	4.9	5.0
REC	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7	0	0	0	4.9	5.0
F.F	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7	0	0	0	4.9	5.0
REW	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7	0	0	0	4.9	5.0
REF. NO.	IC6002																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	5.0	2.2	2.4	0	0	0	5.0	5.0	5.0	5.0	0	0	0	0.2	0	0	4.5	0	0	0
PLAY	5.0	2.2	2.4	0	0	0	0	5.0	5.0	0	0	0	0	0.2	0	0	4.5	0	0	0
REC	5.0	2.2	2.4	0	0	0	0	5.0	5.0	5.0	0	0	0	0.2	0	0	4.5	0	0	0
F.F	5.0	2.2	2.4	0	0	0	0	5.0	5.0	5.0	0	0	0	0.2	0	0	4.5	0	0	0
REW	5.0	2.2	2.4	0	0	0	0	5.0	5.0	5.0	0	0	0	0.2	0	0	4.5	0	0	0
REF. NO.	IC6002																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	5.0	5.0	0	5.0
PLAY	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	5.0	5.0	0	5.0
REC	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	5.0	5.0	0	5.0
F.F	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	5.0	5.0	0	5.0
REW	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	5.0	5.0	0	5.0
REF. NO.	IC6002																			
MODE	61	62	63	64																
STOP	0.1	5.0	5.0	5.0																
PLAY	0.1	5.0	5.0	5.0																
REC	0.1	5.0	5.0	5.0																
F.F	0.1	5.0	5.0	5.0																
REW	0.1	5.0	5.0	5.0																
REF. NO.	IC6003																			
MODE	1	2	3																	
STOP	5.0	5.0	0																	
PLAY	5.0	5.0	0																	
REC	5.0	5.0	0																	
F.F	5.0	5.0	0																	
REW	5.0	5.0	0																	
REF. NO.	IC6005																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.6	5.0	4.6	5.0				
PLAY	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.6	5.0				
REC	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.6	5.0				
F.F	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.7	5.0				
REW	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.7	5.0				
REF. NO.	IC6007										IC6008									
MODE	1	2	3	4	5	6	7	8			1	2	3							
STOP	5.0	5.0	0.1	5.0	0	0	5.0	5.0			2.3	0	2.9							
PLAY	5.0	5.0	0.1	5.0	0	0	5.0	5.0			2.3	0	2.9							
REC	5.0	5.0	0.1	5.0	0	0	5.0	5.0			2.3	0	2.9							
F.F	5.0	5.0	0.1	5.0	0	0	5.0	5.0			2.3	0	2.9							
REW	5.0	5.0	0.1	5.0	0	0	5.0	5.0			2.3	0	2.9							

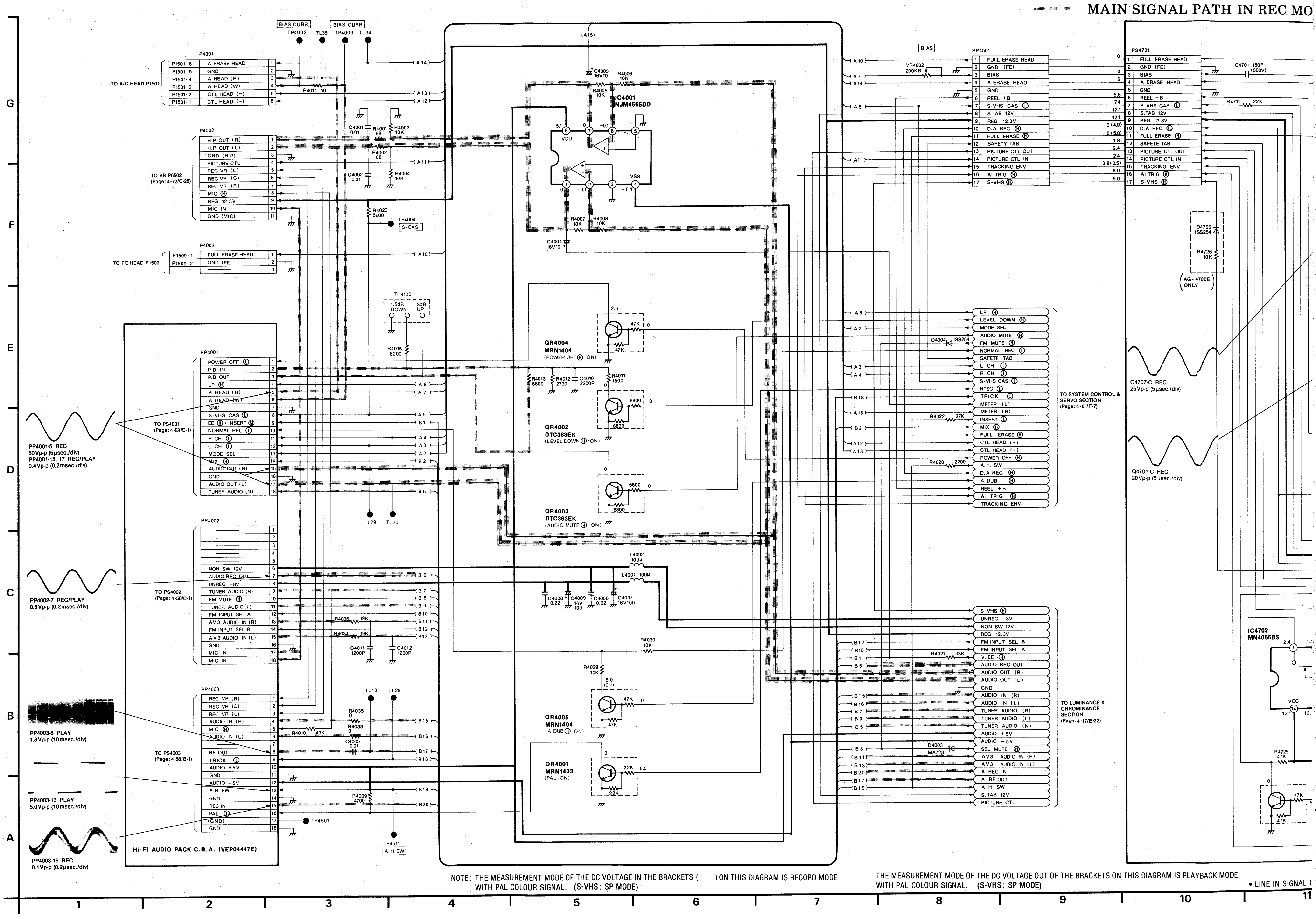
SYSTEM CONTROL & SERVO TRANSISTORs DC VOLTAGE CHART (S-VHS: SP MODE)

REF. NO.	Q2001			Q2002			Q6001			Q6002			Q6003			Q6004		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	5.0	4.8	5.0	1.6	0	1.0	5.1	14.4	5.6	5.1	−0.2	5.0	5.2	5.4	5.9	5.0	5.0	5.7
PLAY	5.0	4.8	5.0	2.6	0	2.0	5.0	14.4	5.6	5.0	4.8	4.2	5.2	5.4	5.9	5.0	5.0	5.7
REC	5.0	4.8	4.9	1.1	0	0.5	4.9	14.3	5.6	4.9	4.8	4.2	5.2	5.4	5.9	5.0	5.0	5.5
F.F	5.0	4.8	5.0	1.1	0	1.1	5.0	14.3	5.6	5.0	4.9	4.2	5.2	5.4	5.9	5.0	5.0	5.7
REW	5.0	4.8	5.0	1.1	0	0.5	5.0	14.3	5.6	5.0	4.8	4.2	5.2	5.4	5.9	5.0	5.0	5.7
REF. NO.	Q6005			Q6006			Q6008											
MODE	E	C	B	E	C	B	E	C	B									
STOP	0	4.9	0.1	0	4.7	0.1	5.0	5.1	5.8									
PLAY	0	4.9	0.1	0	4.7	0.1	5.0	5.1	5.8									
REC	0	4.9	0.1	0	4.7	0.1	5.0	5.1	5.8									
F.F	0	4.8	0.1	0	4.7	0.1	5.0	5.1	5.8									
REW	0	4.8	0.1	0	4.7	0.1	5.0	5.1	5.8									
REF. NO.	QR2001						QR2002			QR6001			QR6002			QR6003		
MODE	1	2	3	4	5		E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0	4.9	0	4.9		5.0	0	5.0	0	0	5.0	5.0	5.0	0	5.0	5.0	0
PLAY	0	0	4.9	0	4.9		5.0	0	5.0	0	0	5.0	5.0	5.0	0	5.0	5.0	0
REC	0	0	4.9	0	4.9		5.0	0	5.0	0	0	5.0	5.0	5.0	0	5.0	5.0	0
F.F	0	1.0	0	0	0		5.0	0	5.0	0	0	5.0	5.0	5.0	0	5.0	5.0	0
REW	0	1.0	0	0	0		5.0	0	5.0	0	0	5.0	5.0	5.0	0	5.0	5.0	0
REF. NO.	QR6004			QR6009						QR6012			QR6013			QR6014		
MODE	E	C	B	1	2	3	4	5		E	C	B	E	C	B	E	C	B
STOP	0	0.9	1.7	5.1	0	0	0	0		0	0.1	4.3	0	0	7.0	0	0	4.9
PLAY	0	0.9	1.7	0.5	0	0	0	0		0	0.1	4.3	0	0	7.0	0	0	4.9
REC	0	1.0	1.7	5.1	0	0	0	0		0	0.1	4.3	0	0	7.0	0	0	4.9
F.F	0	1.0	1.7	5.1	0	0	0	0		0	0.1	4.3	0	0	7.0	0	0	4.9
REW	0	0.9	1.7	5.1	0	0	0	0		0	0.1	4.3	0	0	7.0	0	0	4.9
REF. NO.	QR6015																	
MODE	E	C	B															
STOP	5.2	0.3	5.0															
PLAY	5.2	0.3	5.0															
REC	5.2	0.3	5.0															
F.F	5.2	0.3	5.0															
REW	5.2	0.3	5.0															

INPUT/OUTPUT CHART FOR IC6002 (M38024V1BN)

PIN NO.	I/O	PORT NAME	PIN NO.	I/O	PORT NAME	PIN NO.	I/O	PORT NAME
1	O	OSD CLK	20	I	L CLK	37	I	VITC OK (H)
2	O	OSD DATA	21	I	5P CLK	38	I	LANGUAGE 2
3	O	OSD CS	22	I	OSC IN	39	I	LANGUAGE 1
4	O	OSD ON (H)	23	O	OSC OUT	40	I	LANGUAGE 0
5, 6	–	—	24	–	GND	41–46	–	—
7	I	L CLK CNT	25	O	JOG LED (H)	47	O	BUS SELECT (B)
8	–	—	26	O	EDIT 21P	48	O	BUS SELECT (A)
9	I	SYS CLK	27	O	AV VTR (L)	49	I	CHECK (L)
10	O	SYS OUT	28	O	TBC SEARCH Ⓛ	50–56	–	—
11	I	SYS IN	29	O	TBC TRICK Ⓛ	57, 58	I	VDD
12	O	DATA INH	30	O	TBC ON Ⓛ	59	–	GND
13	I	CLK INPUT	31	–	—	60	I	EE DATA IN
14	O	DATA OUT	32	O	EDIT (H)	61	O	EE DATA OUT
15	I	DATA IN	33	I	TEST SIGNAL (H)	62	O	EE CLK
16, 17	–	—	34	I	OSD SECAM (H)	63	O	EE CS
18	–	GND	35	O	INSIDE (H)	64	I	REC/P1/P2
19	I	RESET (L)	36	I	SERCH MUTE OK (H)			

4-4. AUDIO SECTION IN MAIN & SUB AUDIO PACK SCHEMATIC DIAGRAM


MAIN SIGNAL PATH IN REC MO
BIAS CURR.
TP4002
TL35
TP4003
TL34
P4001
TO A/C HEAD P1501
A. ERASE HEAD
GND
A. HEAD (R)
A. HEAD (W)
CTL HEAD (−)
CTL HEAD (+)
P4002
TO VR P6502 (Page: 4-72/C-28)
H.P OUT (R)
H.P OUT (L)
GND (H.P)
PICTURE CTL
REC VR (L)
REC VR (C)
REC VR (R)
MIC Ⓗ
REG 12.3V
MIC IN
GND (MIC)
P4003
TO FE HEAD P1509
FULL ERASE HEAD
GND (FE)
TP4004 S-CAS
TL 4100
1.5dB DOWN
3dB UP
IC4001 NJM4565DD
VDD
VSS
QR4004 MRN1404 (POWER OFF Ⓗ : ON)
QR4002 DTC363EK (LEVEL DOWN Ⓗ : ON)
QR4003 DTC363EK (AUDIO MUTE Ⓗ : ON)
QR4005 MRN1404 (A.DUB Ⓗ : ON)
QR4001 MRN1403 (PAL : ON)
L4002 100μ
L4001 100μ
PP4001
TO PS4001 (Page: 4-58/E-1)
POWER OFF Ⓛ
P.B IN
P.B OUT
LP Ⓗ
A. HEAD (R)
A. HEAD (W)
GND
S-VHS CAS Ⓛ
EE Ⓗ / INSERT Ⓜ
NORMAL REC Ⓛ
R CH Ⓛ
L CH Ⓛ
MODE SEL
MIX Ⓗ
AUDIO OUT (R)
GND
AUDIO OUT (L)
TUNER AUDIO (N)
PP4002
TO PS4002 (Page: 4-58/C-1)
NON SW 12V
AUDIO RFC OUT
UNREG −8V
TUNER AUDIO (R)
FM MUTE Ⓗ
TUNER AUDIO (L)
FM INPUT SEL A
AV3 AUDIO IN (R)
FM INPUT SEL B
AV3 AUDIO IN (L)
GND
MIC IN
MIC IN
PP4003
TO PS4003 (Page: 4-58/B-1)
REC VR (R)
REC VR (C)
REC VR (L)
AUDIO IN (R)
MIC Ⓗ
AUDIO IN (L)
RF OUT
TRICK Ⓛ
AUDIO +5V
GND
AUDIO −5V
A.H. SW
GND
REC IN
PAL Ⓛ
(GND)
GND
TP4501
TP4511 A.H.SW
TL29
TL30
TL43
TL28
Hi-Fi AUDIO PACK C.B.A. (VEP04447E)
PP4001-5 REC 50Vp-p (5μsec./div) PP4001-15, 17 REC/PLAY 0.4Vp-p (0.2msec./div)
PP4002-7 REC/PLAY 0.5Vp-p (0.2msec./div)
PP4003-8 PLAY 1.8Vp-p (10msec./div)
PP4003-13 PLAY 5.0Vp-p (10msec./div)
PP4003-15 REC 0.1Vp-p (0.2μsec./div)
BIAS
VR4002 200KB
PP4501
PS4701
FULL ERASE HEAD
GND (FE)
BIAS
A.ERASE HEAD
GND
REEL +B
S-VHS CAS Ⓛ
S.TAB 12V
REG 12.3V
D.A.REC Ⓗ
FULL ERASE Ⓗ
SAFETY TAB
PICTURE CTL OUT
PICTURE CTL IN
TRACKING ENV.
AI TRIG Ⓗ
S-VHS Ⓗ
C4701 180P (500V)
R4711 22K
D4703 1SS254
R4726 10K
(AG-4700E ONLY)
TO SYSTEM CONTROL & SERVO SECTION (Page: 4-6 /F-7)
TO LUMINANCE & CHROMINANCE SECTION (Page: 4-17/B-22)
Q4707-C REC 25Vp-p (5μsec./div)
Q4701-C REC 20Vp-p (5μsec./div)
IC4702 MN4066BS
D4004 1SS254
D4003 MA723
R4725 47K

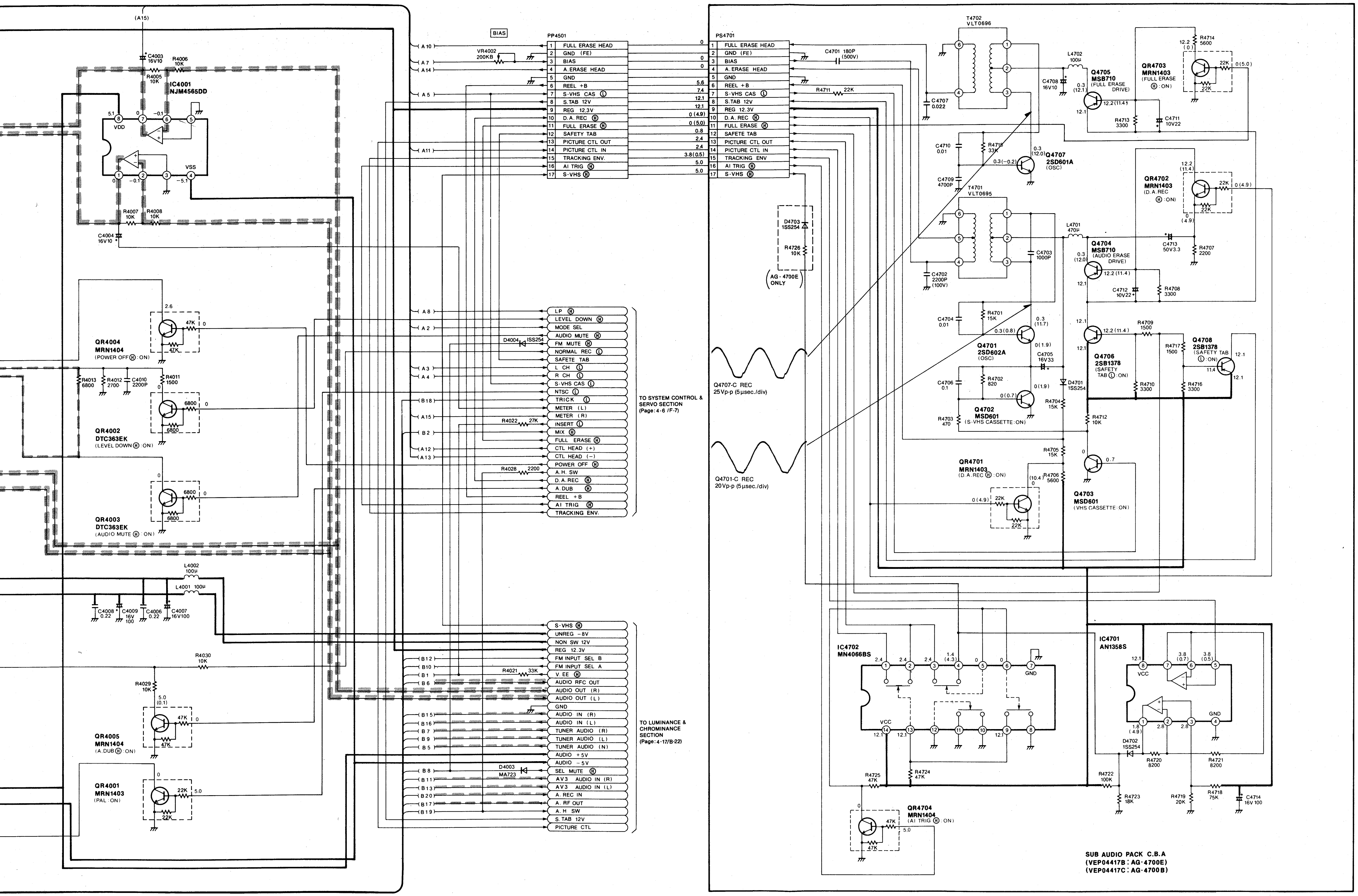
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

• LINE IN SIGNAL L

K SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE　　MAIN SIGNAL PATH IN PLAYBACK MODE


IC4001 NJM4565DD
VDD
VSS
C4003 16V10
R4006 10K
R4005 10K
R4007 10K
R4008 10K
C4004 16V10
BIAS
VR4002 200KB
PP4501
PS4701
FULL ERASE HEAD
GND (FE)
BIAS
A.ERASE HEAD
GND
REEL +B
S-VHS CAS Ⓛ
S.TAB 12V
REG 12.3V
D.A.REC Ⓗ
FULL ERASE Ⓗ
SAFETY TAB
PICTURE CTL OUT
PICTURE CTL IN
TRACKING ENV.
AI TRIG Ⓗ
S-VHS Ⓗ
QR4004 MRN1404 (POWER OFF Ⓗ:ON)
QR4002 DTC363EK (LEVEL DOWN Ⓗ:ON)
QR4003 DTC363EK (AUDIO MUTE Ⓗ:ON)
QR4005 MRN1404 (A.DUB Ⓗ:ON)
QR4001 MRN1403 (PAL:ON)
R4013 6800
R4012 2700
C4010 2200P
R4011 1500
D4004 1SS254
R4022 27K
R4028 2200
L4002 100μ
L4001 100μ
C4008 0.22
C4009 16V100
C4006 0.22
C4007 16V100
R4030 10K
R4029 10K
R4021 33K
D4003 MA723
LP Ⓗ
LEVEL DOWN Ⓗ
MODE SEL
AUDIO MUTE Ⓗ
FM MUTE Ⓗ
NORMAL REC Ⓛ
SAFETE TAB
L CH Ⓛ
R CH Ⓛ
S-VHS CAS Ⓛ
NTSC Ⓛ
TRICK Ⓛ
METER (L)
METER (R)
INSERT Ⓛ
MIX Ⓗ
FULL ERASE Ⓗ
CTL HEAD (+)
CTL HEAD (−)
POWER OFF Ⓗ
A.H. SW
D.A.REC Ⓗ
A.DUB Ⓗ
REEL +B
AI TRIG Ⓗ
TRACKING ENV.
TO SYSTEM CONTROL & SERVO SECTION (Page: 4-6 / F-7)
S-VHS Ⓗ
UNREG −8V
NON SW 12V
REG 12.3V
FM INPUT SEL B
FM INPUT SEL A
V.EE Ⓗ
AUDIO RFC OUT
AUDIO OUT (R)
AUDIO OUT (L)
GND
AUDIO IN (R)
AUDIO IN (L)
TUNER AUDIO (R)
TUNER AUDIO (L)
TUNER AUDIO (N)
AUDIO +5V
AUDIO −5V
SEL MUTE Ⓗ
AV3 AUDIO IN (R)
AV3 AUDIO IN (L)
A.REC IN
A.RF OUT
A.H SW
S.TAB 12V
PICTURE CTL
TO LUMINANCE & CHROMINANCE SECTION (Page: 4-17 / B-22)
C4701 180P (500V)
R4711 22K
T4702 VLT0696
T4701 VLT0695
C4707 0.022
C4702 2200P (100V)
D4703 1SS254
R4726 10K
(AG-4700E ONLY)
Q4707-C REC 25Vp-p (5μsec./div)
Q4701-C REC 20Vp-p (5μsec./div)
Q4707 2SD601A (OSC)
Q4701 2SD602A (OSC)
Q4702 MSD601 (S-VHS CASSETTE: ON)
Q4703 MSD601 (VHS CASSETTE: ON)
Q4705 MSB710 (FULL ERASE DRIVE)
Q4704 MSB710 (AUDIO ERASE DRIVE)
Q4706 2SB1378 (SAFETY TAB Ⓛ: ON)
Q4708 2SB1378 (SAFETY TAB Ⓛ: ON)
QR4703 MRN1403 (FULL ERASE Ⓗ: ON)
QR4702 MRN1403 (D.A.REC Ⓗ: ON)
QR4701 MRN1403 (D.A.REC Ⓗ: ON)
QR4704 MRN1404 (AI TRIG Ⓗ: ON)
L4702 100μ
L4701 470μ
C4708 16V10
C4711 10V22
C4712 10V22
C4713 50V3.3
R4714 5600
R4713 3300
R4707 2200
R4708 3300
R4709 1500
R4717 1500
R4710 3300
R4716 3300
R4712 10K
R4704 15K
R4705 15K
R4706 5600
D4701 1SS254
C4705 16V33
C4710 0.01
R4715 33K
C4709 4700P
C4703 1000P
C4704 0.01
R4701 15K
C4706 0.1
R4702 820
R4703 470
IC4702 MN4066BS
VCC
GND
R4725 47K
R4724 47K
IC4701 AN1358S
D4702 1SS254
R4722 100K
R4723 18K
R4720 8200
R4721 8200
R4719 20K
R4718 75K
C4714 16V100
SUB AUDIO PACK C.B.A
(VEP04417B: AG-4700E)
(VEP04417C: AG-4700B)

OTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

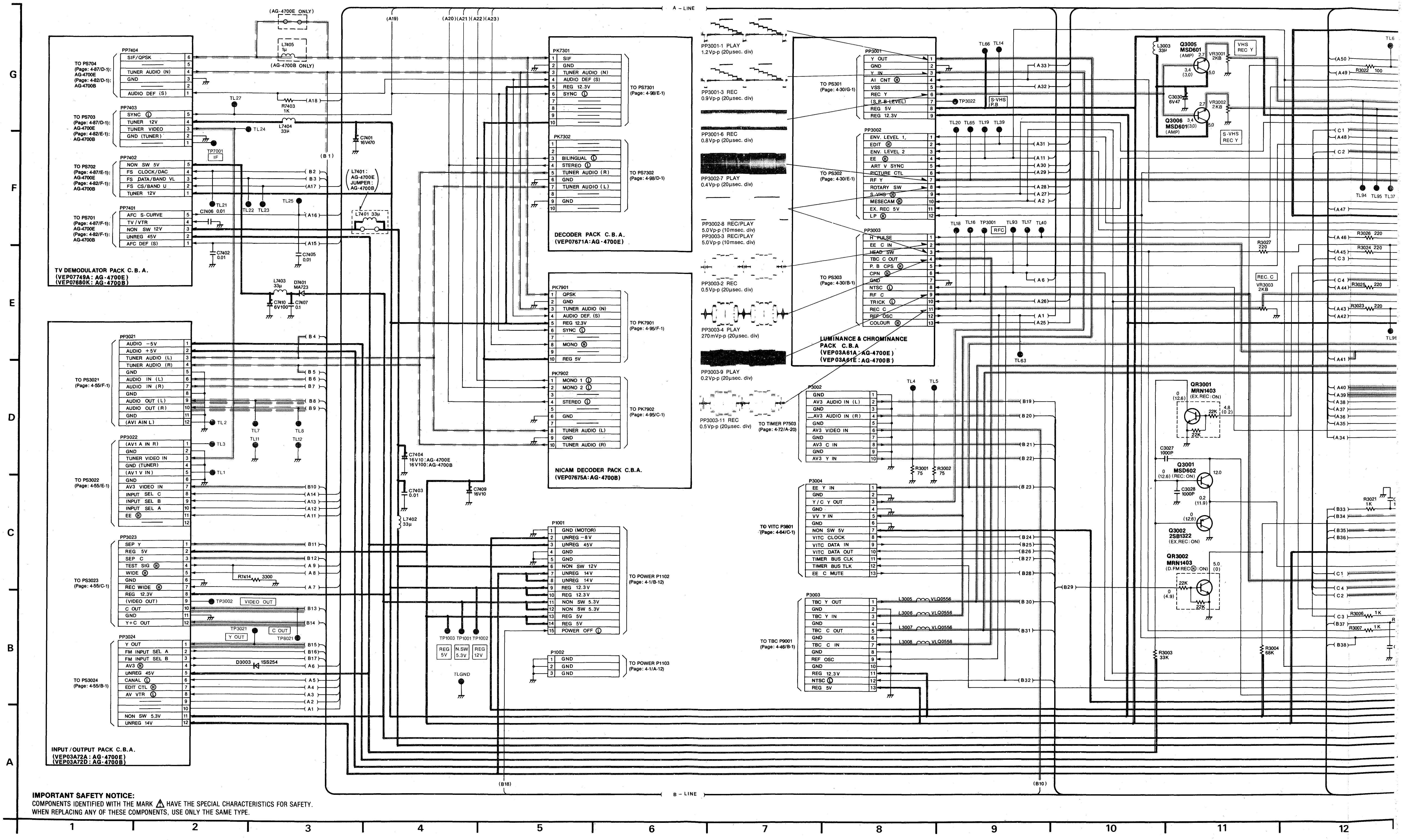
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

• LINE IN SIGNAL LEVEL... −10dB 1kHz

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

5 6 7 8 9 10 11 12 13 14

4-5. LUMINANCE & CHROMINANCE SECTION IN MAIN SCHEMATIC DIAGRAM


TV DEMODULATOR PACK C.B.A.
(VEP07749A: AG-4700E)
(VEP07680K: AG-4700B)
PP7404
PP7403
PP7402
PP7401
TO PS704
TO PS703
TO PS702
TO PS701
INPUT/OUTPUT PACK C.B.A.
(VEP03A72A: AG-4700E)
(VEP03A72D: AG-4700B)
PP3021
PP3022
PP3023
PP3024
TO PS3021
TO PS3022
TO PS3023
TO PS3024
(AG-4700E ONLY)
(AG-4700B ONLY)
L7405 1μ
R7403 1K
L7404 33μ
C7401 16V470
L7401: AG-4700E JUMPER: AG-4700B
L7401 33μ
L7403 33μ
D7401 MA723
C7404 16V10: AG-4700E 16V100: AG-4700B
C7403 0.01
L7402 33μ
C7409 16V10
R7414 3300
D3003 1SS254
TP3002 VIDEO OUT
TP3021 Y OUT
TP8021 C OUT
DECODER PACK C.B.A.
(VEP07671A: AG-4700E)
PK7301
PK7302
TO PS7301
TO PS7302
NICAM DECODER PACK C.B.A.
(VEP07675A: AG-4700B)
PK7901
PK7902
TO PK7901
TO PK7902
P1001
P1002
TO POWER P1102
TO POWER P1103
TP1003 TP1001 TP1002
REG 5V
N.SW 5.3V
REG 12V
TLGND
A - LINE
B - LINE
PP3001-1 PLAY 1.2Vp-p (20μsec. div)
PP3001-3 REC 0.9Vp-p (20μsec. div)
PP3001-6 REC 0.8Vp-p (20μsec. div)
PP3002-7 PLAY 0.4Vp-p (20μsec. div)
PP3002-8 REC/PLAY 5.0Vp-p (10msec. div)
PP3003-3 REC/PLAY 5.0Vp-p (10msec. div)
PP3003-2 REC 0.5Vp-p (20μsec. div)
PP3003-4 PLAY 270mVp-p (20μsec. div)
PP3003-9 PLAY 0.2Vp-p (20μsec. div)
PP3003-11 REC 0.5Vp-p (20μsec. div)
LUMINANCE & CHROMINANCE PACK C.B.A
(VEP03A61A: AG-4700E)
(VEP03A61E: AG-4700B)
PP3001
PP3002
PP3003
TO PS301
TO PS302
TO PS303
P3002
P3004
P3003
TO TIMER P7503
TO VITC P3801
TO TBC P9001
L3005 VLQ0556
L3006 VLQ0556
L3007 VLQ0556
L3008 VLQ0556
R3001 75
R3002 75
L3003 33μ
Q3005 MSD601 (AMP)
VR3001 2KB
C3030 6V47
Q3006 MSD601 (AMP)
VR3002 2KB
VHS REC Y
S-VHS REC Y
S-VHS P.B
TP3022
RFC
R3027 220
REC. C
VR3003 2KB
QR3001 MRN1403 (EX.REC: ON)
C3027 1000P
Q3001 MSD602 (REC: ON)
C3028 1000P
Q3002 2SB1322 (EX.REC: ON)
QR3002 MRN1403 (D.FM REC Ⓗ: ON)
R3003 33K
R3004 68K
R3022 100
R3026 220
R3024 220
R3025 220
R3023 220
R3021 1K
R3006 1K
R3007 1K
G
F
E
D
C
B
A
1
2
3
4
5
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7
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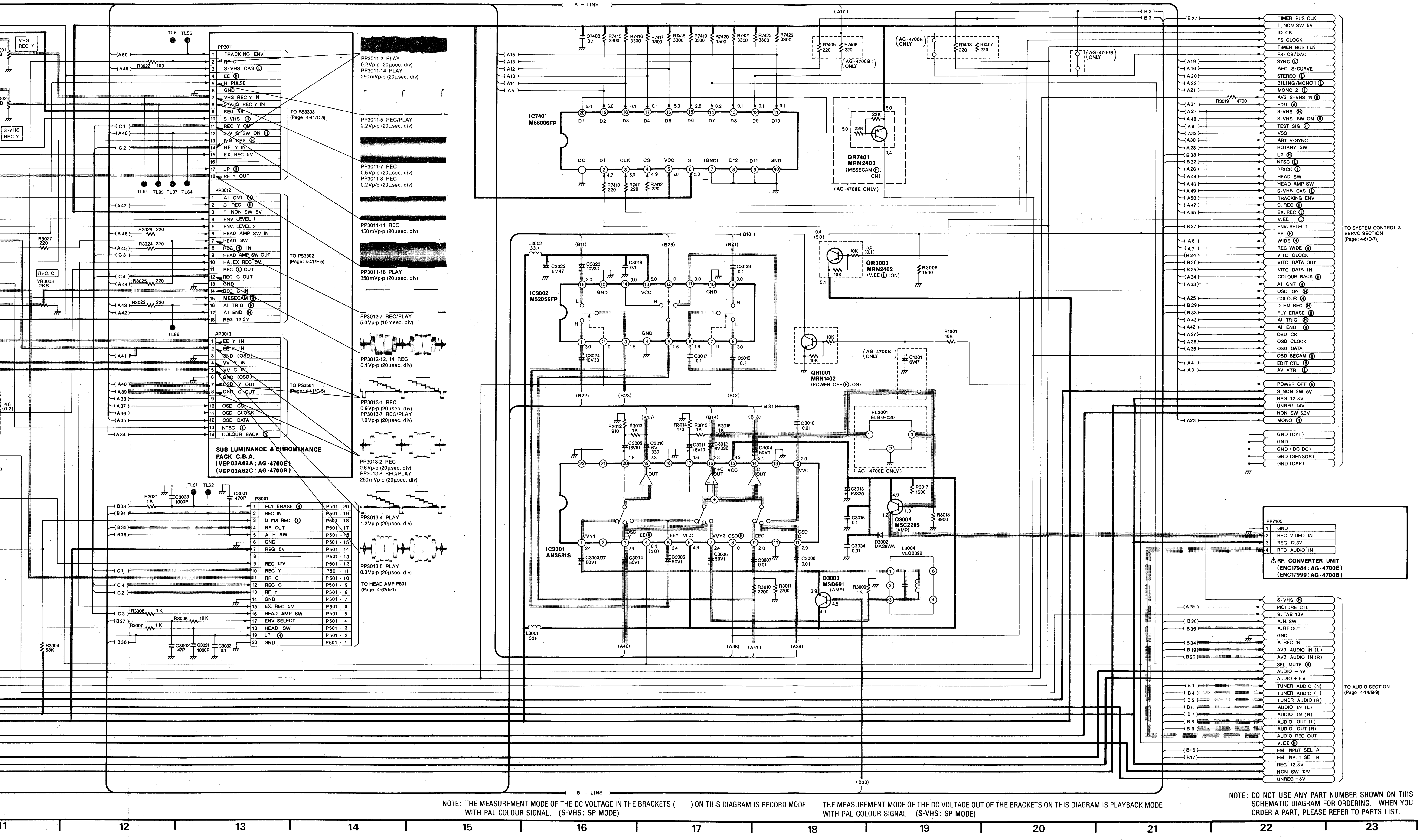
9
10
11
12

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE


A - LINE
B - LINE
PP3011
PP3012
PP3013
TO PS3303 (Page: 4-41/C-5)
TO PS3302 (Page: 4-41/E-5)
TO PS3501 (Page: 4-41/G-5)
SUB LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03A62A: AG-4700E) (VEP03A62C: AG-4700B)
P3001
TO HEAD AMP P501 (Page: 4-67/E-1)
IC7401 M66006FP
IC3002 M52055FP
IC3001 AN3581S
QR7401 MRN2403
QR3003 MRN2402
QR1001 MRN1402
Q3004 MSC2295 (AMP)
Q3003 MSD601 (AMP)
FL3001 ELB4H020
L3004 VLQ0398
PP7405
RF CONVERTER UNIT (ENC17984: AG-4700E) (ENC17990: AG-4700B)
TO SYSTEM CONTROL & SERVO SECTION (Page: 4-6/D-7)
TO AUDIO SECTION (Page: 4-14/B-9)
11
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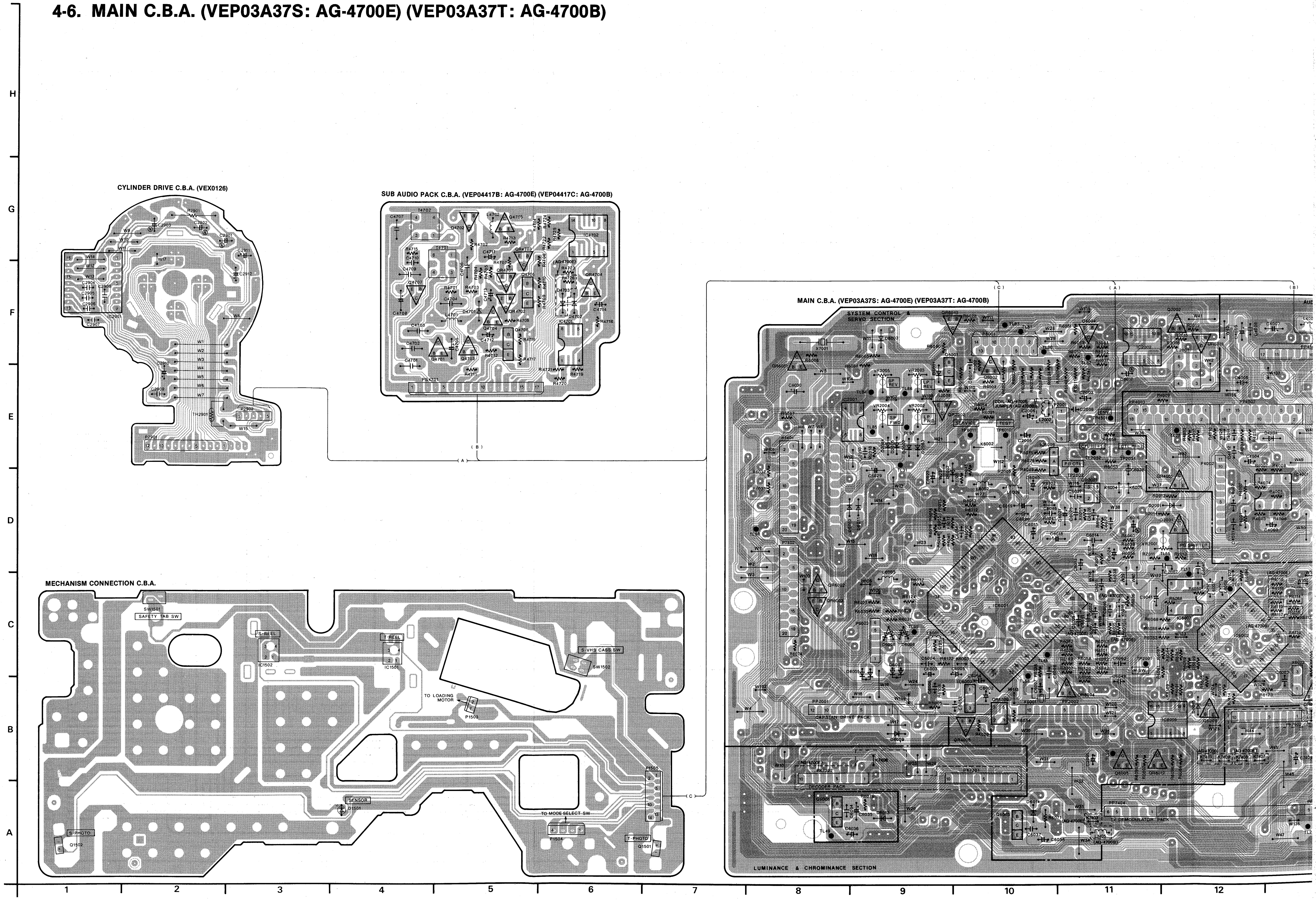
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-6. MAIN C.B.A. (VEP03A37S: AG-4700E) (VEP03A37T: AG-4700B)


CYLINDER DRIVE C.B.A. (VEX0126)
SUB AUDIO PACK C.B.A. (VEP04417B: AG-4700E) (VEP04417C: AG-4700B)
MAIN C.B.A. (VEP03A37S: AG-4700E) (VEP03A37T: AG-4700B)
MECHANISM CONNECTION C.B.A.
SYSTEM CONTROL & SERVO SECTION
LUMINANCE & CHROMINANCE SECTION
CAPSTAN DRIVE PACK
DECODER PACK
TV DEMODULATOR PACK
SAFETY TAB SW
SW1501
S-REEL
IC1502
T-REEL
IC1501
S-VHS CASS. SW
SW1502
TO LOADING MOTOR
P1503
SENSOR
D1501
TO MODE SELECT SW
P1504
S-PHOTO
Q1502
T-PHOTO
Q1501
P1505
P2901
P2902
PS4701
(A)
(B)
(C)
H
G
F
E
D
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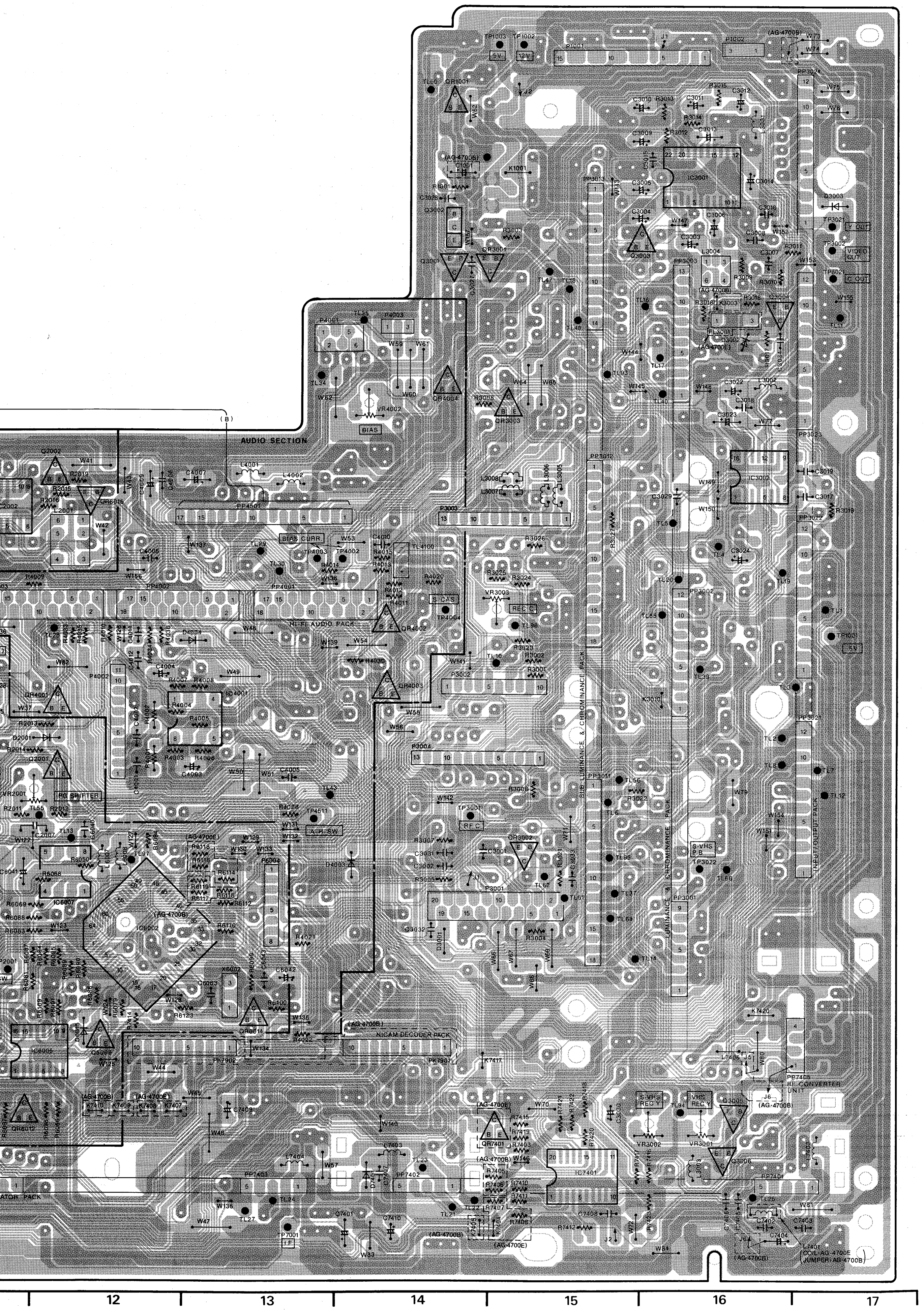


MAIN C.B.A. ADDRESS INFORMATION

SYSTEM CONTROL & SERVO Section	
Transistor	
Q1501	A-7
Q1502	A-1
Q2001	D-12
Q2002	F-12
Q6001	E-9
Q6002	E-10
Q6003	A-10
Q6004	F-11
Q6005	B-11
Q6006	B-12
Q6008	A-8
Transistor & Resistor	
QR2001	D-11
QR2002	E-9
QR6001	E-8
QR6002	C-8
QR6003	C-8
QR6004	B-11
QR6009	B-10
QR6012	B-11
QR6013	F-9
QR6014	B-13
QR6015	F-12
Integrated Circuit	
IC1501	C-4
IC1502	C-3
IC2001	E-9
IC2002	F-11
IC2901	F-1
IC6001	C-10
IC6002	C-12
IC6003	B-10
IC6005	B-12
IC6007	C-12
IC6008	E-10
Test Point	
TP2001	C-11
TP2002	D-11
TP2031	E-11
TP2032	E-11
TP6010	E-10
TP6011	E-10
Adjustment	
VR2001	D-12
VR2002	E-9
VR2003	E-9
VR2004	E-9
VR2005	E-9
Connector	
P1503	B-5
P1504	A-6
P1505	B-7
P2001	E-11
P2901	E-2
P2902	E-3
P6001	F-10
P6003	C-9
P6004	C-13
P7401	E-8
P7402	D-8
PP2001	B-8
PP2002	B-11

ADDRESS INFORMATION

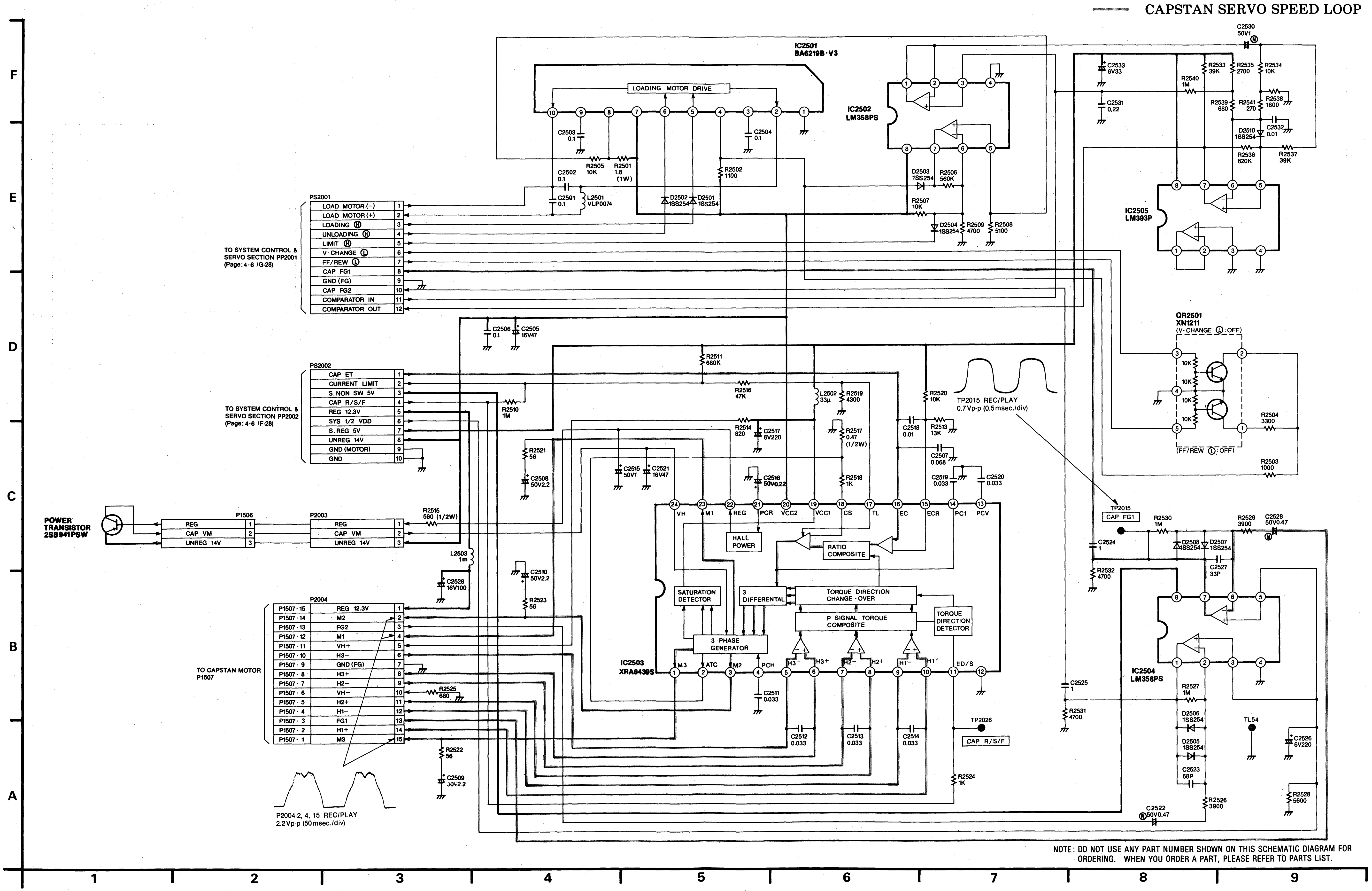
LUMINANCE & CHROMINANCE Section	
Transistor	
Q3001	G-14
Q3002	H-14
Q3003	G-15
Q3004	G-16
Q3005	B-16
Q3006	A-16
Transistor & Resistor	
QR1001	H-14
QR3001	G-15
QR3002	C-15
QR3003	F-15
QR7401	B-15
Integrated Circuit	
IC3001	H-16
IC3002	F-16
IC7401	A-15
Test Point	
TP1001	E-17
TP1002	H-15
TP1003	H-15
TP3001	D-14
TP3002	G-17
TP3021	G-17
TP3022	C-16
TP8021	G-17
Adjustment	
VR3001	B-16
VR3002	B-16
VR3003	E-15
Connector	
P1001	H-15
P1002	H-16
P3001	C-15
P3002	D-14
P3003	F-14
P3004	D-14
PK7301	B-10
PK7302	B-8
PK7901	B-14
PK7902	B-13
PP3001	C-16
PP3002	E-16
PP3003	G-16
PP3011	D-15
PP3012	F-15
PP3013	H-15
PP3021	D-17
PP3022	E-17
PP3023	F-17
PP3024	H-17
PP7401	A-16
PP7402	A-14
PP7403	A-13
PP7404	A-11
PP7405	B-17

ADDRESS INFORMATION

AUDIO Section & SUB AUDIO PACK C.B.A.	
Transistor	
Q4701	F-5
Q4702	G-5
Q4703	F-5
Q4704	F-5
Q4705	G-5
Q4706	F-5
Q4707	F-4
Q4708	F-5
Transistor & Resistor	
QR4001	D-12
QR4002	E-14
QR4003	D-14
QR4004	F-14
QR4005	B-10
QR4701	F-5
QR4702	F-5
QR4703	G-5
QR4704	F-6
Integrated Circuit	
IC4001	D-13
IC4701	F-6
IC4702	G-6
Adjustment	
VR4002	F-14
Test Point	
TP4002	E-14
TP4003	E-13
TP4004	E-14
TP4501	E-11
TP4511	D-13
Connector	
P4001	G-14
P4002	D-12
P4003	G-14
PP4001	E-13
PP4002	E-12
PP4003	E-11
PP4501	F-13
PS4701	E-4

ADDRESS INFORMATION

4-7. CAPSTAN DRIVE PACK SCHEMATIC DIAGRAM


CAPSTAN SERVO SPEED LOOP
IC2501 BA6219B-V3
LOADING MOTOR DRIVE
IC2502 LM358PS
IC2505 LM393P
IC2504 LM358PS
IC2503 XRA6430S
QR2501 XN1211 (V-CHANGE Ⓛ:OFF)
(FF/REW Ⓛ:OFF)
PS2001
LOAD MOTOR (−)
LOAD MOTOR (+)
LOADING Ⓗ
UNLOADING Ⓗ
LIMIT Ⓗ
V-CHANGE Ⓛ
FF/REW Ⓛ
CAP FG1
GND (FG)
CAP FG2
COMPARATOR IN
COMPARATOR OUT
TO SYSTEM CONTROL & SERVO SECTION PP2001 (Page: 4-6 /G-28)
PS2002
CAP ET
CURRENT LIMIT
S.NON SW 5V
CAP R/S/F
REG 12.3V
SYS 1/2 VDD
S.REG 5V
UNREG 14V
GND (MOTOR)
GND
TO SYSTEM CONTROL & SERVO SECTION PP2002 (Page: 4-6 /F-28)
POWER TRANSISTOR 2SB941PSW
P1506
P2003
REG
CAP VM
UNREG 14V
P2004
P1507-15 REG 12.3V
P1507-14 M2
P1507-13 FG2
P1507-12 M1
P1507-11 VH+
P1507-10 H3−
P1507-9 GND (FG)
P1507-8 H3+
P1507-7 H2−
P1507-6 VH−
P1507-5 H2+
P1507-4 H1−
P1507-3 FG1
P1507-2 H1+
P1507-1 M3
TO CAPSTAN MOTOR P1507
P2004-2, 4, 15 REC/PLAY 2.2Vp-p (50msec./div)
TP2015 REC/PLAY 0.7Vp-p (0.5msec./div)
TP2015 CAP FG1
TP2026 CAP R/S/F
TL54
VH
M1
REG
PCR
VCC2
VCC1
CS
TL
EC
ECR
PC1
PCV
HALL POWER
RATIO COMPOSITE
SATURATION DETECTOR
3 DIFFERENTAL
TORQUE DIRECTION CHANGE-OVER
P SIGNAL TORQUE COMPOSITE
TORQUE DIRECTION DETECTOR
3 PHASE GENERATOR
M3
ATC
M2
PCH
H3−
H3+
H2−
H2+
H1−
H1+
ED/S
C2503 0.1
C2504 0.1
C2502 0.1
C2501 0.1
L2501 VLP0074
R2505 10K
R2501 1.8 (1W)
R2502 1100
D2502 1SS254
D2501 1SS254
D2503 1SS254
R2506 560K
R2507 10K
D2504 1SS254
R2509 4700
R2508 5100
C2530 50V1
C2533 6V33
C2531 0.22
R2540 1M
R2533 39K
R2535 2700
R2534 10K
R2539 680
R2541 270
R2538 1800
D2510 1SS254
C2532 0.01
R2536 820K
R2537 39K
C2506 0.1
C2505 16V47
R2511 680K
R2516 47K
L2502 33μ
R2519 4300
R2520 10K
R2510 1M
R2514 820
C2517 6V220
R2517 0.47 (1/2W)
C2518 0.01
R2513 13K
C2507 0.068
R2521 56
C2508 50V2.2
C2515 50V1
C2521 16V47
C2516 50V0.22
R2518 1K
C2519 0.033
C2520 0.033
10K
R2504 3300
R2503 1000
R2515 560 (1/2W)
L2503 1m
C2529 16V100
C2510 50V2.2
R2523 56
R2525 680
R2522 56
C2509 50V2.2
C2511 0.033
C2512 0.033
C2513 0.033
C2514 0.033
R2524 1K
R2530 1M
R2529 3900
C2528 50V0.47
C2524 1
D2508 1SS254
D2507 1SS254
C2527 33P
R2532 4700
C2525 1
R2531 4700
R2527 1M
D2506 1SS254
D2505 1SS254
C2523 68P
R2526 3900
C2522 50V0.47
C2526 6V220
R2528 5600
F
E
D
C
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A
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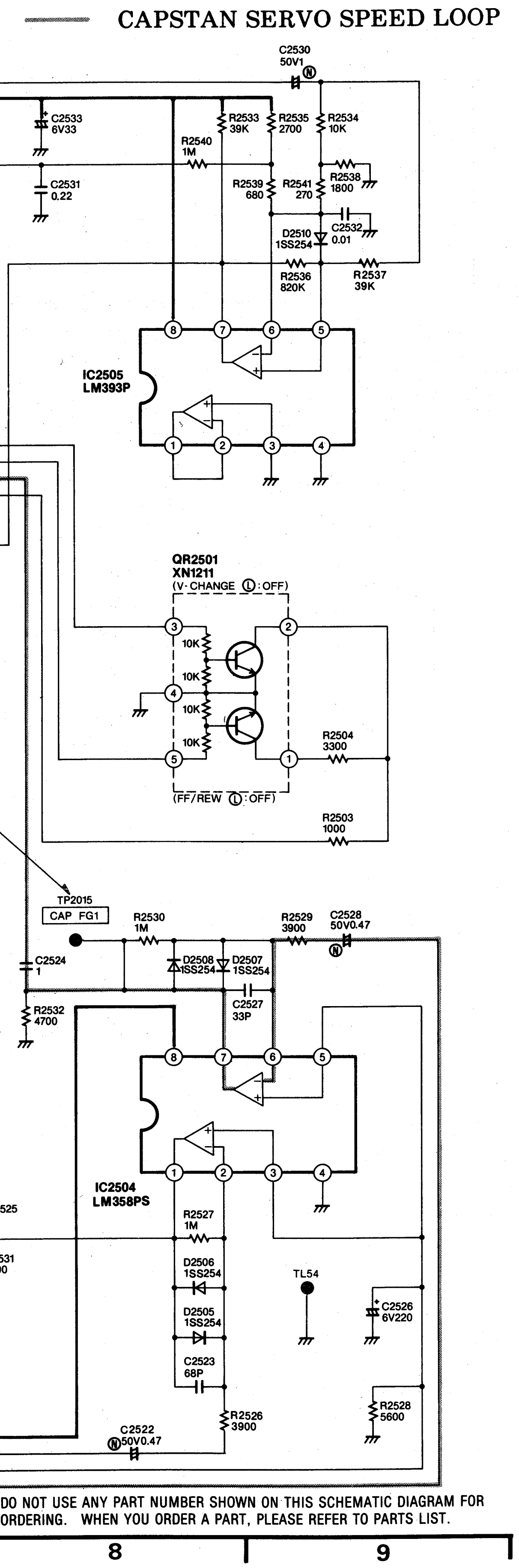
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.


CAPSTAN SERVO SPEED LOOP
C2530 50V1
C2533 6V33
R2533 39K
R2535 2700
R2534 10K
R2540 1M
C2531 0.22
R2539 680
R2541 270
R2538 1800
D2510 1SS254
C2532 0.01
R2536 820K
R2537 39K
IC2505 LM393P
QR2501 XN1211
(V-CHANGE ①:OFF)
10K
10K
10K
10K
R2504 3300
(FF/REW ①:OFF)
R2503 1000
TP2015 CAP FG1
R2530 1M
R2529 3900
C2528 50V0.47
C2524 1
D2508 1SS254
D2507 1SS254
C2527 33P
R2532 4700
IC2504 LM358PS
R2527 1M
D2506 1SS254
D2505 1SS254
C2523 68P
TL54
C2526 6V220
R2526 3900
R2528 5600
C2522 50V0.47
525
531
0
8
9

DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

CAPSTAN DRIVE PACK ICs DC VOLTAGE CHART (S-VHS: SP MODE)

REF. NO.	IC2501										IC2502							
MODE	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8
STOP	0	0	0	6.9	0	0	14.4	14.4	0	0	0	0	0	0	4.9	0.7	13.1	14.4
PLAY	0	0.4	0	6.8	0	0	14.3	14.3	0	0	0	0	0	0	4.8	0.7	13.0	14.3
REC	0	0.3	0.1	6.8	0	0	14.3	14.3	0	0.1	0	0	0	0	4.8	0.7	13.0	14.3
F.F	0.1	0	0	14.2	0.1	0.1	14.3	14.3	0	0	0	0	0	0	4.8	0.7	13.7	14.3
REW	0	0.2	0	14.2	0	0	14.3	14.3	0.1	0	0	0	0	0	4.8	0.7	13.7	14.3

REF. NO.	IC2503																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	1.1	0	1.1	1.5	2.3	2.4	2.3	2.4	2.4	2.3	2.0	0	1.2	2.6	2.9	1.4	0	0	5.2	14.4
PLAY	3.1	0.1	3.1	1.5	2.4	2.4	2.4	2.4	2.4	2.4	0	0	0.8	0.7	2.9	2.6	0.5	0.1	5.2	14.3
REC	3.1	0.1	3.1	1.5	2.4	2.4	2.4	2.4	2.4	2.4	0	0	0.8	0.7	2.9	2.6	0.5	0.1	5.2	14.3
F.F	7.7	0.2	7.7	1.5	2.4	2.4	0	2.4	2.4	2.4	0	0.1	1.0	0.8	2.9	1.9	0.5	0	5.2	14.3
REW	7.3	0.2	7.3	1.5	2.4	2.4	2.4	2.4	2.4	2.4	5.0	0.1	0.9	0.7	2.9	2.5	0.5	0.2	5.2	14.2

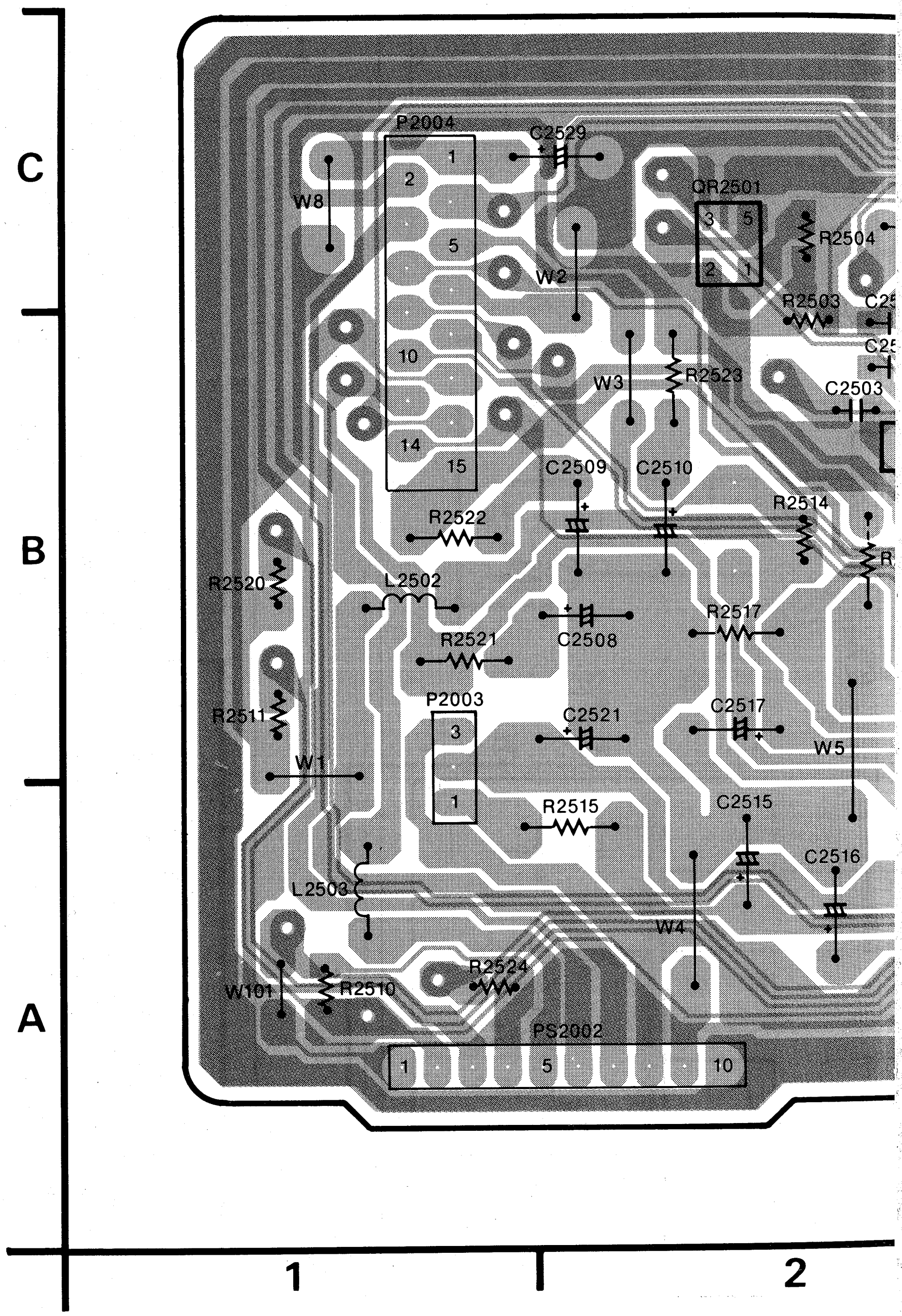
REF. NO.	IC2503			
MODE	21	22	23	24
STOP	0.5	13.8	1.1	4.7
PLAY	2.3	13.1	3.1	4.7
REC	2.3	13.1	3.1	4.6
F.F	12.1	5.8	7.3	14.2
REW	8.0	6.5	7.1	14.2

REF. NO.	IC2504								IC2505							
MODE	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
STOP	2.5	2.5	2.5	0	2.5	2.5	2.5	5.0	0	0.5	0.5	0	2.4	2.9	0	5.2
PLAY	2.5	2.5	2.5	0	2.5	2.5	2.5	5.0	0	0.4	0.4	0	2.4	2.9	0	5.2
REC	2.5	2.5	2.5	0	2.5	2.5	2.5	5.0	0	0.4	0.4	0	2.4	2.9	0	5.2
F.F	2.5	2.5	2.5	0	2.5	2.5	2.5	5.0	0	0.4	0.4	0	2.4	2.9	0	5.2
REW	2.5	2.5	2.5	0	2.5	2.5	2.5	5.0	0	0.4	0.4	0	2.4	2.9	0	5.2

CAPSTAN DRIVE PACK TRANSISTORs DC VOLTAGE CHART (S-VHS: SP MODE)

REF. NO.	QR2501				
MODE	1	2	3	4	5
STOP	0	0.1	4.9	0	4.9
PLAY	0	0.1	4.9	0	4.9
REC	0	0.1	4.9	0	4.9
F.F	14.2	14.2	0	0	0
REW	14.2	14.2	0	0	0

4-8. CAPSTAN DRIVE PACK C.B.A. (VEP02412B)

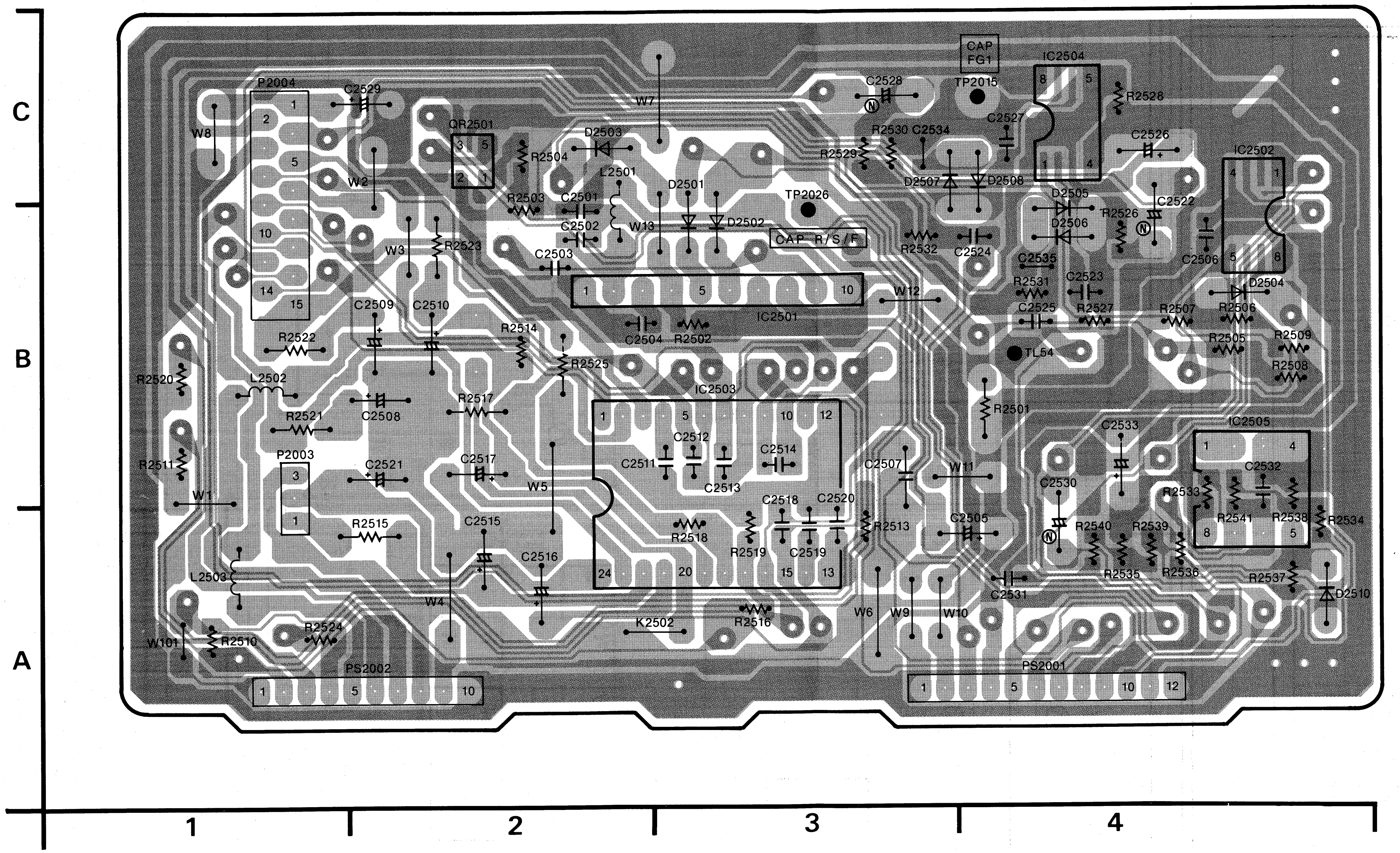

C
B
A
1
2
P2004
C2529
W8
QR2501
R2504
W2
R2503
R2523
W3
C2503
C2509
C2510
R2522
R2514
R2520
L2502
R2517
R2521
C2508
P2003
C2521
C2517
R2511
W1
W5
R2515
C2515
C2516
L2503
W4
R2524
W101
R2510
PS2002
1
5
10

DE)

8		
14.4		
14.3		
14.3		
14.3		
14.3		
18	19	20
0	5.2	14.4
0.1	5.2	14.3
0.1	5.2	14.3
0	5.2	14.3
0.2	5.2	14.2
8		
5.2		
5.2		
5.2		
5.2		
5.2		

P MODE)

4-8. CAPSTAN DRIVE PACK C.B.A. (VEP02412B)


C
B
A
1
2
3
4
P2004
P2003
QR2501
IC2501
IC2502
IC2503
IC2504
IC2505
CAP FG1
CAP R/S/F
TP2015
TP2026
TL54
PS2001
PS2002
K2502
L2501
L2502
L2503
D2501
D2502
D2503
D2504
D2505
D2506
D2507
D2508
D2510
W1
W2
W3
W4
W5
W6
W7
W8
W9
W10
W11
W12
W13
W101
C2501
C2502
C2503
C2504
C2505
C2506
C2507
C2508
C2509
C2510
C2511
C2512
C2513
C2514
C2515
C2516
C2517
C2518
C2519
C2520
C2521
C2522
C2523
C2524
C2525
C2526
C2527
C2528
C2529
C2530
C2531
C2532
C2533
C2534
C2535
R2501
R2502
R2503
R2504
R2505
R2506
R2507
R2508
R2509
R2510
R2511
R2513
R2514
R2515
R2516
R2517
R2518
R2519
R2520
R2521
R2522
R2523
R2524
R2525
R2526
R2527
R2528
R2529
R2530
R2531
R2532
R2533
R2534
R2535
R2536
R2537
R2538
R2539
R2540
R2541

CAPSTAN DRIVE PACK C.B.A.	
Transistor & Resistor	
QR2501	C-2
Integrated Circuit	
IC2501 IC2502 IC2503 IC2504 IC2505	B-3 C-4 B-3 C-4 B-4
Test Point	
TP2015 TP2026	C-4 B-3
Connector	
P2003 P2004 PS2001 PS2202	B-1 C-1 A-4 A-2

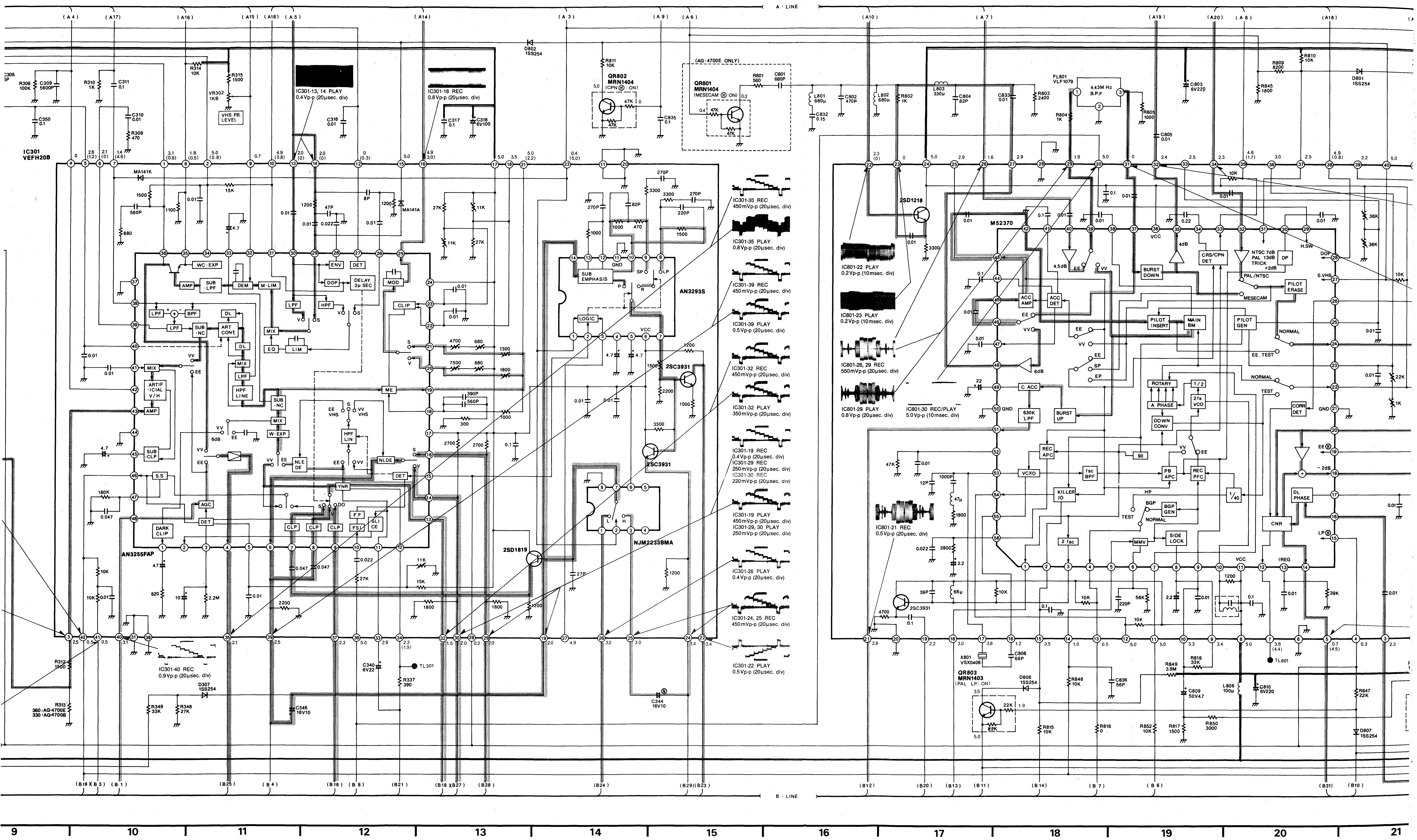
ADDRESS INFORMATION

LUMINANCE & CHROMINANCE PACK

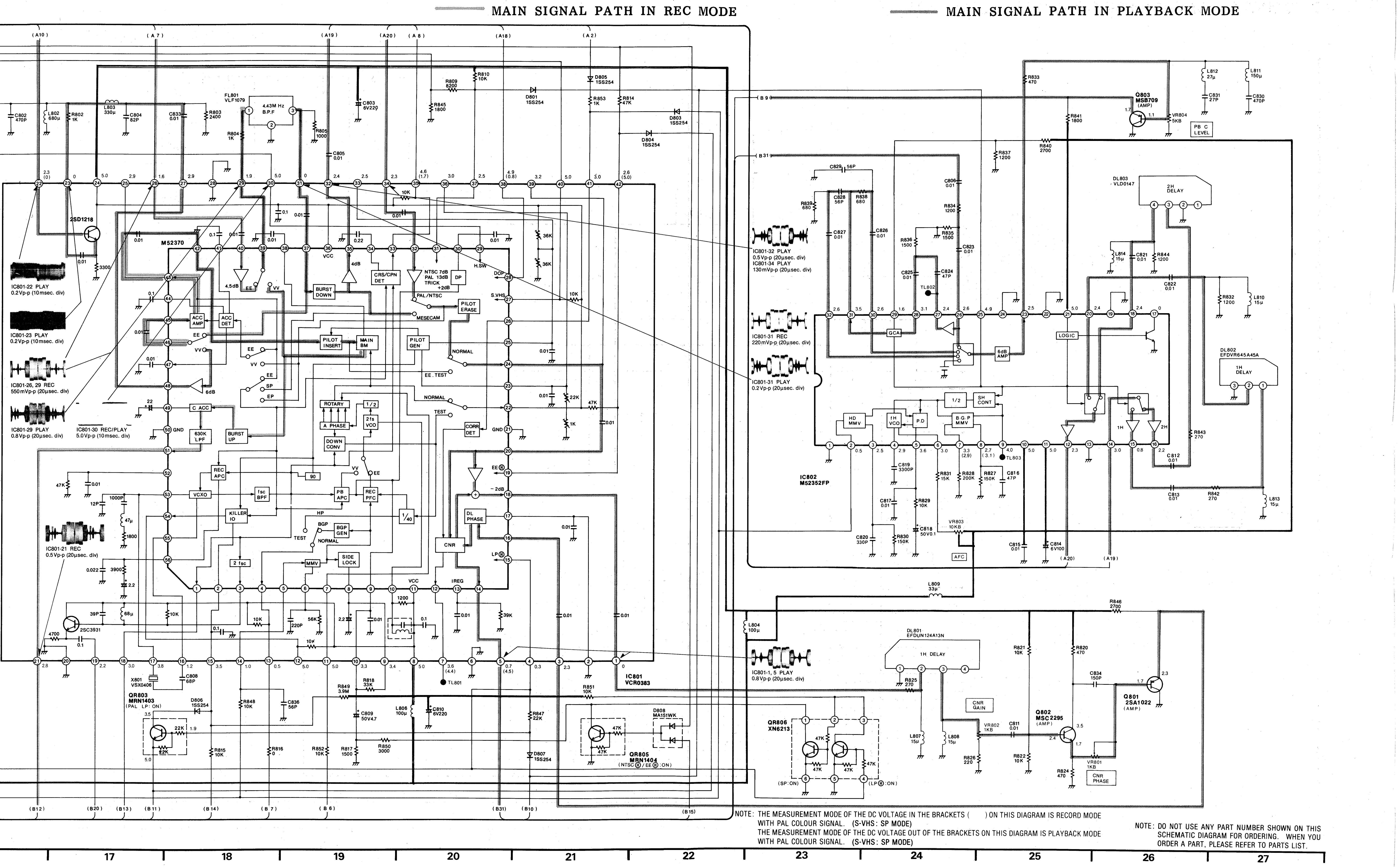
LUMINANCE & CHROMINANCE PACK

CAPSTAN DRIVE PACK

MAIN SIGNAL



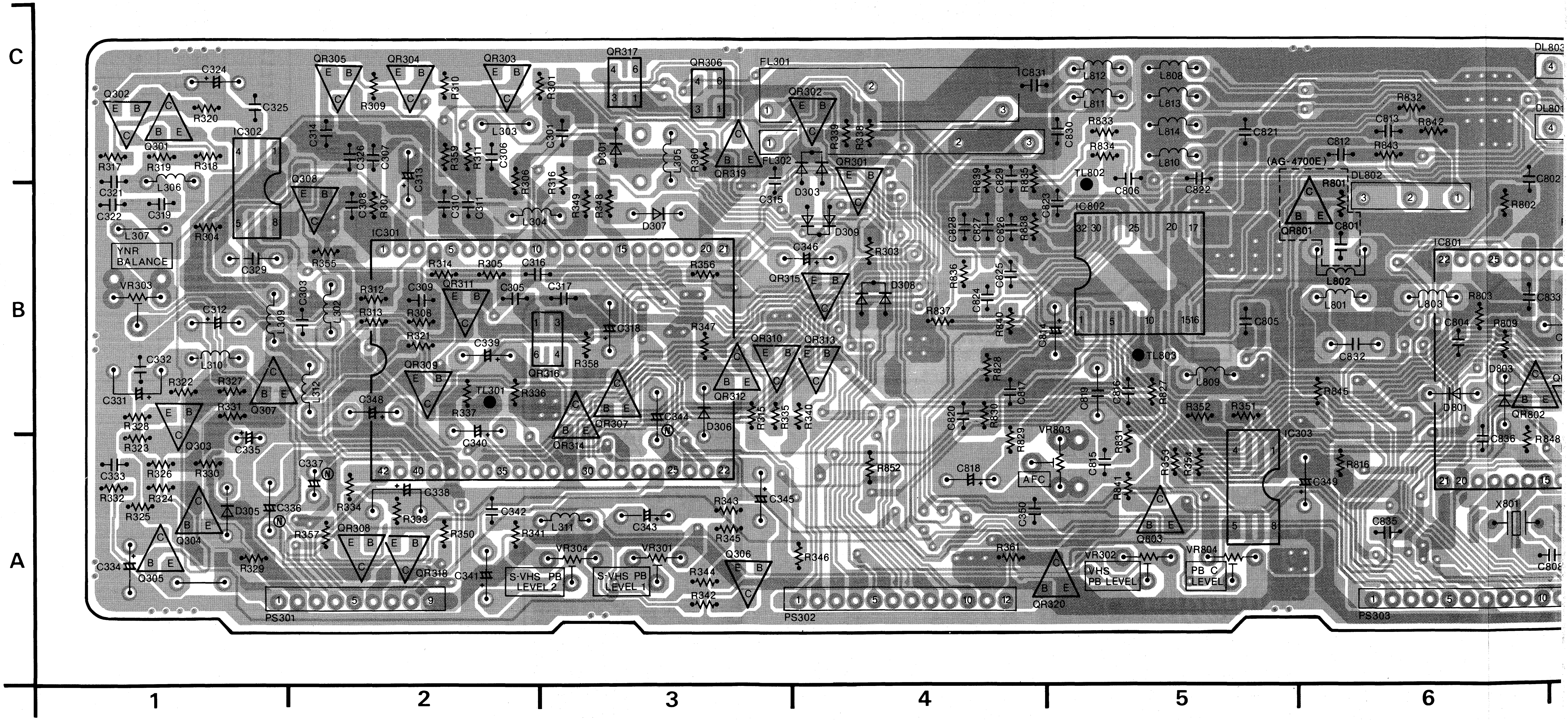
A · LINE
B · LINE
IC301 VEFH20B
AN3255FAP
AN3293S
NJM2233BMA
M52370
2SD1819
2SC3931
2SD1218
QR802 MRN1404 (CPN Ⓝ : ON)
QR801 MRN1404 (MESECAM Ⓗ : ON)
(AG-4700E ONLY)
QR803 MRN1403 (PAL LP: ON)
FL801 VLF1079
4.43M Hz B.P.F
X801 VSX0406
VR302 1KB
VHS PB. LEVEL
D802 1SS254
D801 1SS254
D806 1SS254
D807 1SS254
D307 1SS254
MA141K
MA141A
TL301
TL801
R313 360 : AG-4700E 330 : AG-4700B
IC301-13, 14 PLAY 0.4Vp-p (20μsec. div)
IC301-16 REC 0.8Vp-p (20μsec. div)
IC301-35 REC 450mVp-p (20μsec. div)
IC301-35 PLAY 0.8Vp-p (20μsec. div)
IC301-39 REC 450mVp-p (20μsec. div)
IC301-39 PLAY 0.5Vp-p (20μsec. div)
IC301-32 REC 450mVp-p (20μsec. div)
IC301-32 PLAY 350mVp-p (20μsec. div)
IC301-19 REC 0.4Vp-p (20μsec. div)
IC301-29 REC 250mVp-p (20μsec. div)
IC301-30 REC 220mVp-p (20μsec. div)
IC301-19 PLAY 450mVp-p (20μsec. div)
IC301-29, 30 PLAY 250mVp-p (20μsec. div)
IC301-26 PLAY 0.4Vp-p (20μsec. div)
IC301-24, 25 REC 450mVp-p (20μsec. div)
IC301-22 PLAY 0.5Vp-p (20μsec. div)
IC301-40 REC 0.9Vp-p (20μsec. div)
IC801-22 PLAY 0.2Vp-p (10msec. div)
IC801-23 PLAY 0.2Vp-p (10msec. div)
IC801-26, 29 REC 550mVp-p (20μsec. div)
IC801-29 PLAY 0.8Vp-p (20μsec. div)
IC801-30 REC/PLAY 5.0Vp-p (10msec. div)
IC801-21 REC 0.5Vp-p (20μsec. div)
WC · EXP
SUB · LPF
AMP
DEM
M · LIM
ENV
DET
DOP
DELAY 3μ SEC
MOD
CLIP
LPF
BPF
HPF
DL
SUB · NC
ART CONT
MIX
EQ
LIM
ARTIF · ICIAL V/H
HPF LINE
SUB · CLP
S.S
AGC
DARK CLIP
W · EXP
NLE DE
NLDE
YNR
F.F
FSI
SLI CE
HPF LIN
ME
SUB EMPHASIS
LOGIC
ACC AMP
ACC DET
C ACC
630K LPF
BURST UP
BURST DOWN
CRS/CPN DET
NTSC 7dB PAL 13dB TRICK +2dB
DP
PAL/NTSC
MESECAM
PILOT ERASE
PILOT INSERT
MAIN BM
PILOT GEN
NORMAL
EE . TEST
ROTARY
A PHASE
1/2
2fs VCO
CORR DET
DOWN CONV
REC APC
VCXO
fsc BPF
KILLER IO
PB APC
REC PFC
1/40
DL PHASE
CNR
BGP GEN
SIDE LOCK
MMV
2 fsc
IREG
VCC
GND
H.SW
S.VHS


MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
IC801 VCR0383
M52370
IC802 M52352FP
FL801 VLF1079
4.43M Hz B.P.F
2SD1218
2SC3931
QR803 MRN1403 (PAL LP: ON)
QR805 MRN1404 (NTSC(R)/EE(R):ON)
QR806 XN6213
(SP:ON)
(LP(R):ON)
Q801 2SA1022 (AMP)
Q802 MSC2295 (AMP)
Q803 MSB709 (AMP)
DL801 EFDUN124A13N
1H DELAY
DL802 EFDVR645A45A
1H DELAY
DL803 VLD0147
2H DELAY
PB C LEVEL
CNR GAIN
CNR PHASE
AFC
ACC AMP
ACC DET
BURST DOWN
CRS/CPN DET
NTSC 7dB PAL 13dB TRICK +2dB
DP
PILOT ERASE
PILOT INSERT
MAIN BM
PILOT GEN
MESECAM
NORMAL
EE TEST
ROTARY
1/2
A PHASE
2fs VCO
DOWN CONV
CORR DET
REC APC
VCXO
fsc BPF
KILLER IO
PB APC
REC PFC
1/40
BGP GEN
SIDE LOCK
MMV
2 fsc
CNR
DL PHASE
C ACC
630K LPF
BURST UP
HD MMV
fH VCO
P.D
B.G.P MMV
1/2
SH CONT
GCA
6dB AMP
LOGIC
IC801-22 PLAY 0.2Vp-p (10msec. div)
IC801-23 PLAY 0.2Vp-p (10msec. div)
IC801-26, 29 REC 550mVp-p (20μsec. div)
IC801-29 PLAY 0.8Vp-p (20μsec. div)
IC801-30 REC/PLAY 5.0Vp-p (10msec. div)
IC801-21 REC 0.5Vp-p (20μsec. div)
IC801-32 PLAY 0.5Vp-p (20μsec. div)
IC801-34 PLAY 130mVp-p (20μsec. div)
IC801-31 REC 220mVp-p (20μsec. div)
IC801-31 PLAY 0.2Vp-p (20μsec. div)
IC801-1, 5 PLAY 0.8Vp-p (20μsec. div)
TL801
TL802
TL803
(A10)
(A7)
(A19)
(A20)
(A8)
(A18)
(A2)
(B9)
(B31)
(B12)
(B20)
(B13)
(B11)
(B14)
(B7)
(B6)
(B31)
(B10)
(B15)
(A20)
(A19)
17
18
19
20
21
22
23
24
25
26
27

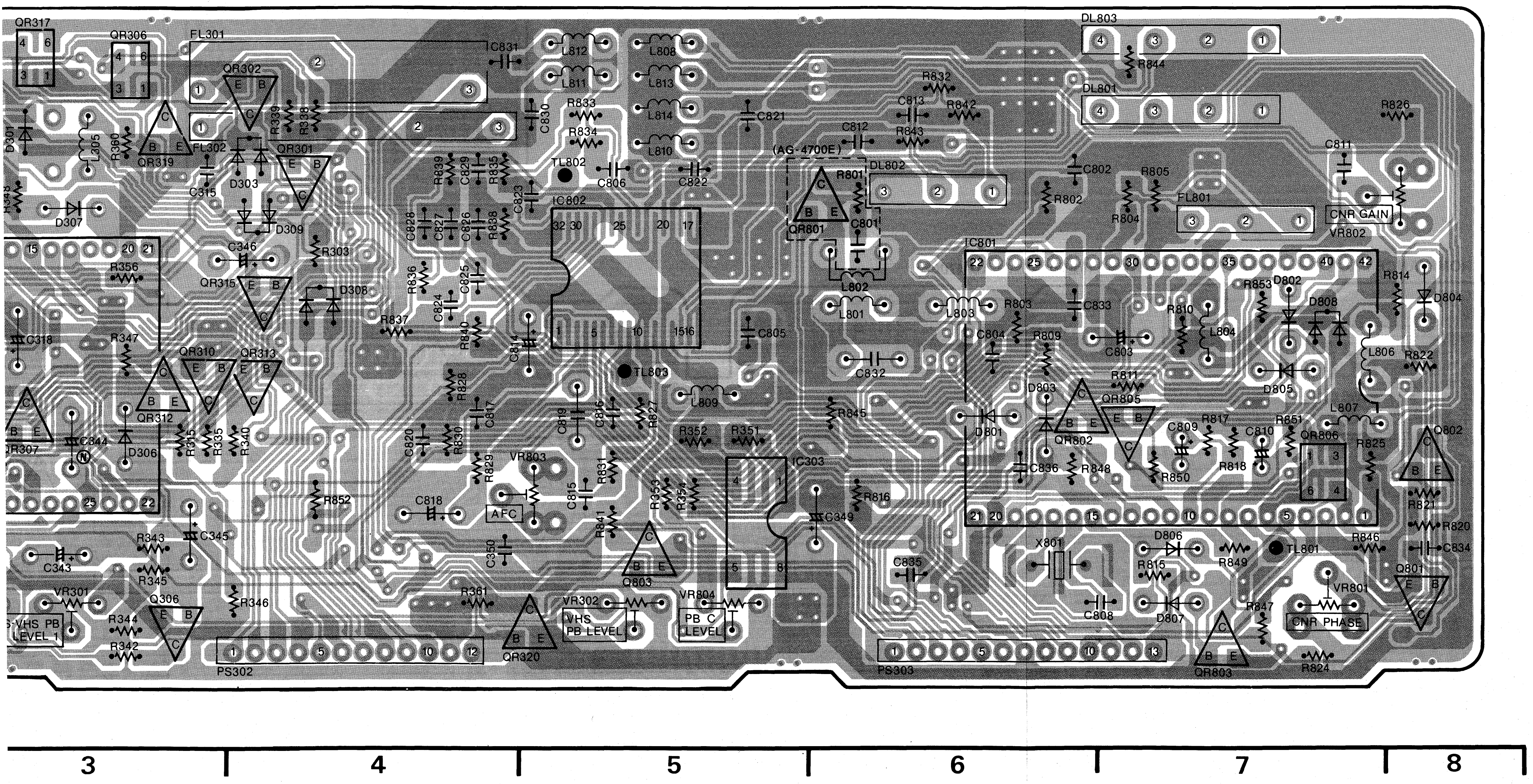
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-10. LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03A61A: AG-4700E) (VEP03A61E: AG-4700B)


C
B
A
1
2
3
4
5
6
Q302
Q301
C324
C325
R320
R317
R319
R318
IC302
L306
C321
C322
C319
L307
R304
YNR BALANCE
VR303
C329
C312
L309
C303
L302
L310
C332
C331
R322
R327
R328
R331
R323
Q303
Q307
L312
C335
C333
R326
R330
R332
R324
R325
Q304
D305
C336
C337
C334
Q305
R329
QR305
QR304
QR303
R309
R310
R301
C314
C326
C307
C313
C308
R307
R359
R311
C306
L303
C310
C311
R306
Q308
IC301
R355
R312
R313
R314
R305
C316
C309
QR311
C305
C317
R308
R321
C339
QR309
C348
TL301
R336
R337
C340
QR316
R358
C318
QR314
QR307
C344
QR317
QR306
C301
D301
L305
R360
QR319
R316
R349
R348
L304
D307
R356
R347
QR310
QR313
QR312
D306
R315
R335
R340
R334
C338
R333
R357
QR308
R350
QR318
C341
C342
L311
R341
C343
VR304
VR301
S-VHS PB LEVEL 2
S-VHS PB LEVEL 1
R343
C345
R345
Q306
R344
R342
PS301
FL301
QR302
R339
R338
FL302
QR301
C315
D303
D309
C346
R303
QR315
D308
R837
R852
R346
PS302
QR320
C831
L812
L811
C830
R833
R834
TL802
C806
R839
C829
R835
C823
C828
C827
C826
R838
IC802
R836
C825
C824
R840
C814
TL803
R826
C817
C819
C816
R827
C820
R830
R829
VR803
AFC
R831
C815
C818
C830
R841
Q803
R361
VR302
VHS PB LEVEL
L808
L813
L814
L810
C821
C822
R853
R354
L809
R352
R351
IC303
R816
C349
VR804
PB C LEVEL
R832
C813
R842
C812
R843
(AG-4700E)
R801
QR801
C801
DL802
L802
L801
C805
IC801
L803
R803
C804
R809
C832
R845
D803
D801
QR802
C836
R848
C833
C802
R802
DL803
DL801
X801
C835
C808
PS303

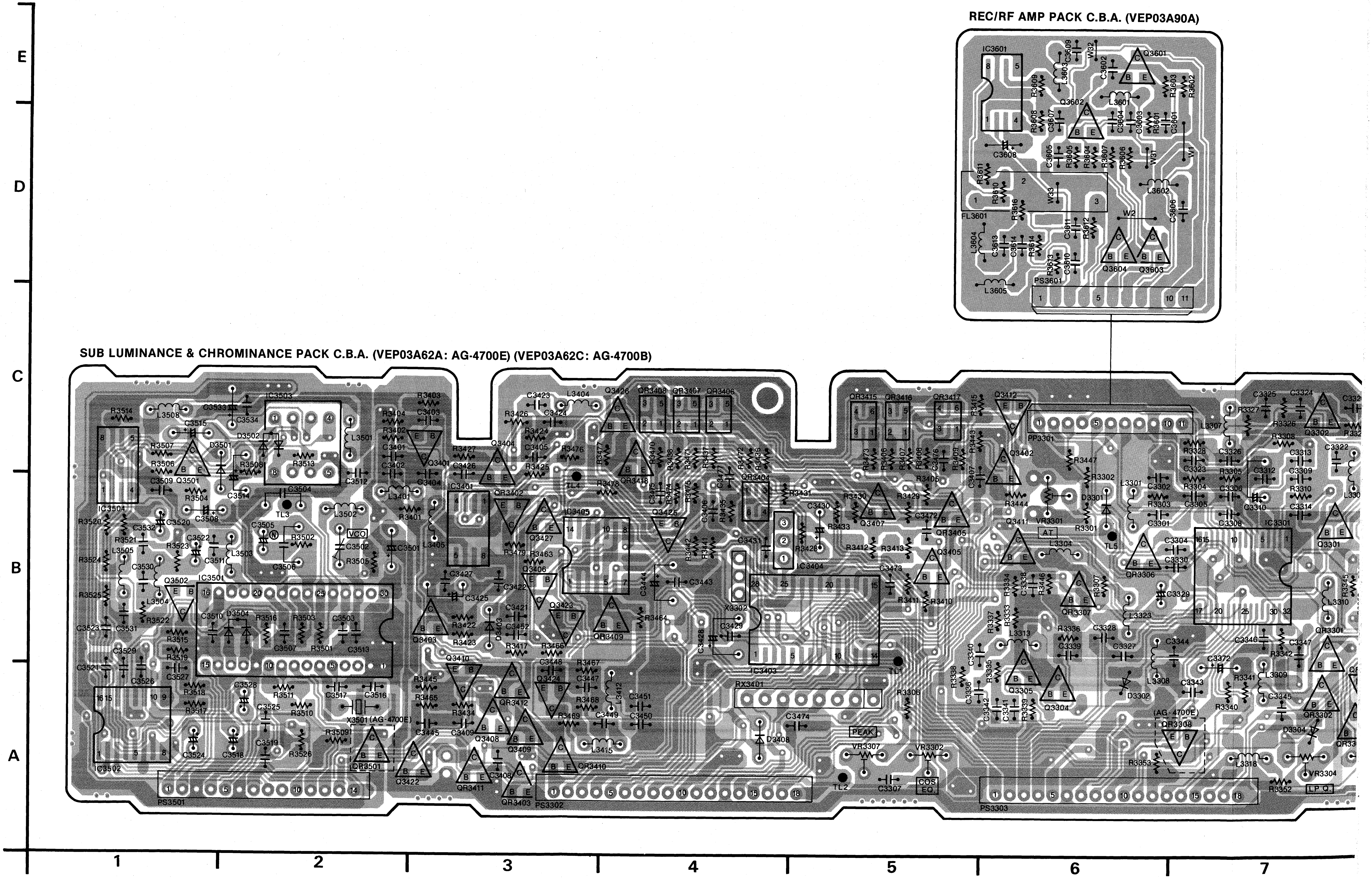
A: AG-4700E) (VEP03A61E: AG-4700B)


QR317
QR306
FL301
QR302
FL302
QR319
QR301
D301
L305
R360
R339
R338
C315
D303
D307
D309
C346
R303
R356
QR315
D308
C318
R347
QR310
QR313
QR312
QR307
C344
D306
R315
R335
R340
R852
C343
R343
C345
R345
VR301
Q306
R344
R342
R346
S-VHS PB LEVEL 1
PS302
C831
L812
L811
L808
L813
L814
L810
C830
R833
R834
TL802
C806
C822
C821
R839
C829
R835
C823
IC802
C828
C827
C826
R838
R836
C825
C824
R837
R840
C814
TL803
R828
C817
L809
C819
C816
R827
C820
R830
R829
VR803
AFC
C815
R831
C818
R841
C350
R352
R351
R353
R354
Q803
R361
QR320
VR302
VHS PB LEVEL
VR804
PB C LEVEL
IC303
C349
R816
C835
R832
C813
R842
C812
R843
(AG-4700E)
R801
DL802
QR801
C801
L802
L801
C805
C832
R845
DL803
R844
DL801
C802
R805
R802
R804
FL801
IC801
L803
R803
C833
C804
R809
C803
R811
D803
QR805
D801
QR802
C836
R848
R850
C809
R817
C810
R818
R851
QR806
R826
C811
CNR GAIN
VR802
R853
D802
D808
R810
L804
R814
D804
L806
R822
D805
L807
R825
Q802
R821
R820
X801
D806
R849
TL801
R846
C834
R815
C808
D807
R847
VR801
CNR PHASE
Q801
QR803
R824
PS303
3
4
5
6
7
8

LUMINANCE & CHROMINANCE PACK C.B.A.	
Transistor	
Q301	C-1
Q302	C-1
Q303	A-1
Q304	A-1
Q305	A-1
Q306	A-3
Q307	B-1
Q308	B-2
Q801	A-8
Q802	B-8
Q803	A-5
Transistor & Resistor	
QR301	C-4
QR302	C-4
QR303	C-2
QR304	C-2
QR305	C-2
QR306	C-3
QR307	B-3
QR308	A-2
QR309	B-2
QR310	B-3
QR311	B-2
QR312	B-3
QR313	B-4
QR314	B-3
QR315	B-4
QR316	B-3
QR317	C-3
QR318	A-2
QR319	C-3
QR320	A-5
QR801	B-6
QR802	B-6
QR803	A-7
QR805	B-7
QR806	B-7
Integrated Circuit	
IC301	B-2
IC302	C-1
IC303	A-5
IC801	B-6
IC802	B-5
Adjustment	
VR301	A-3
VR302	A-5
VR303	B-1
VR304	A-3
VR801	A-7
VR802	B-7
VR803	A-5
VR804	A-5
Connector	
PS301	A-2
PS302	A-4
PS303	A-6

ADDRESS INFORMATION

4-11. SUB LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03A62A: AG-4700E) (VEP03A62C: AG-4700B)



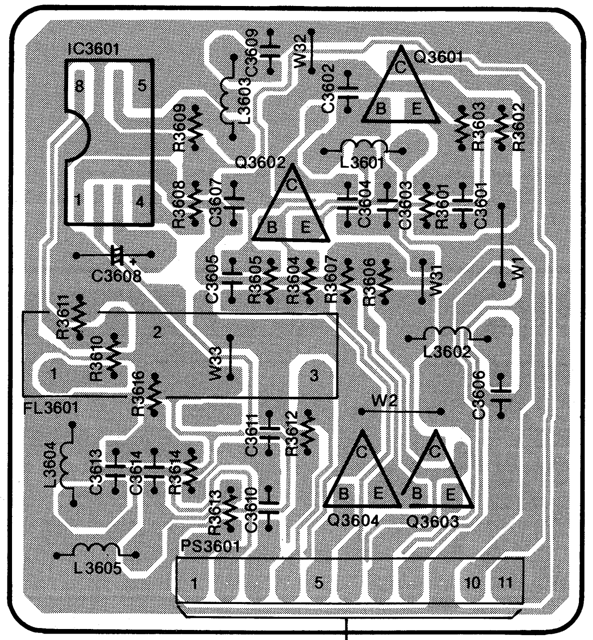
REC/RF AMP PACK C.B.A. (VEP03A90A)

SUB LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03A62A: AG-4700E) (VEP03A62C: AG-4700B)

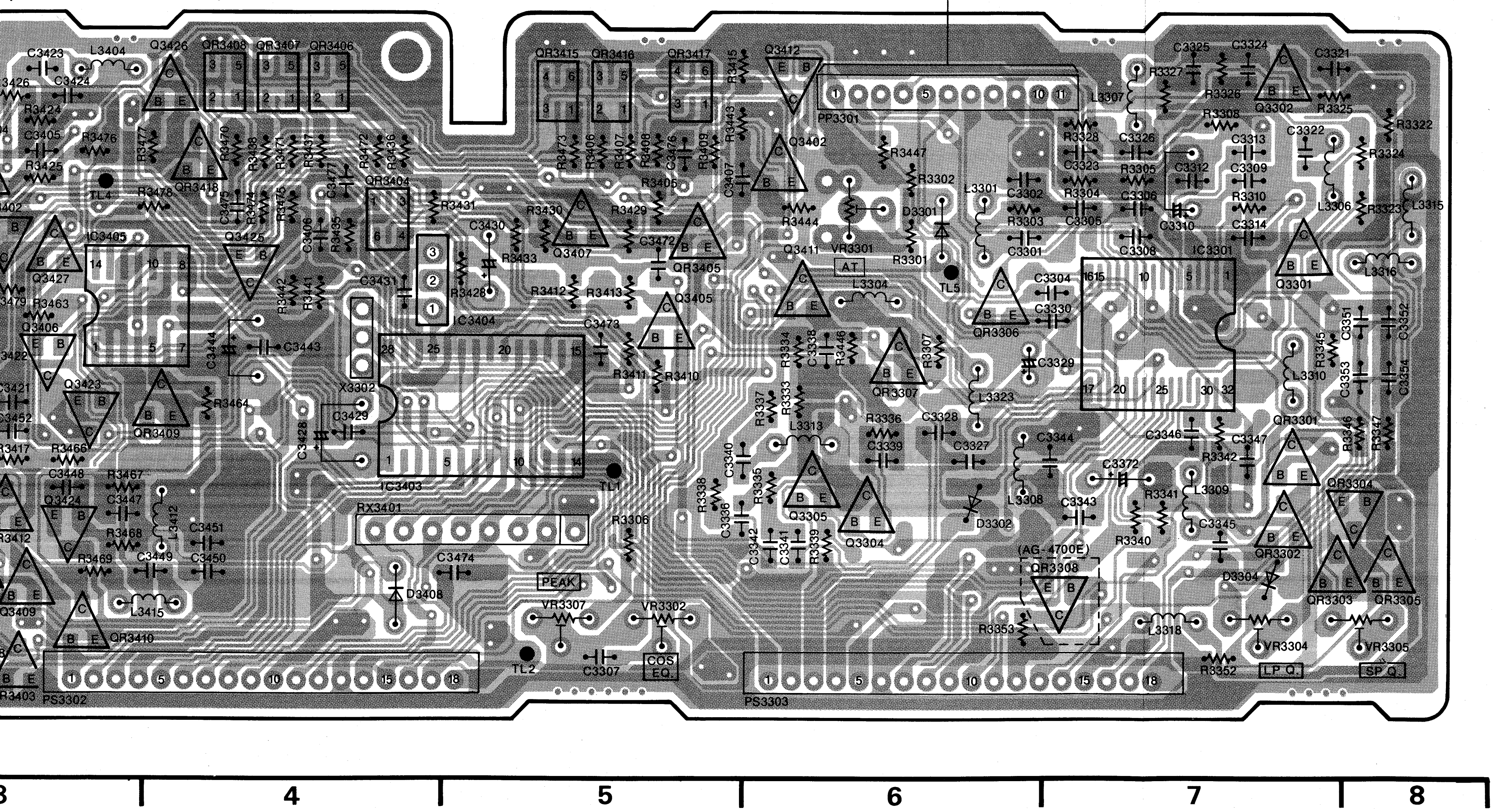
E
D
C
B
A
1
2
3
4
5
6
7
IC3601
FL3601
PS3601
Q3601
Q3602
Q3603
Q3604
IC3501
IC3502
IC3503
IC3504
IC3401
IC3403
IC3404
IC3405
IC3301
PS3501
PS3302
PS3303
PP3301
RX3401
X3501 (AG-4700E)
X3302
VCO
AT
PEAK
COS EQ.
LP Q.
(AG-4700E)
QR3308
TL1
TL2
TL3
TL4
TL5
VR3301
VR3302
VR3304
VR3307

EP03A62A: AG-4700E) (VEP03A62C: AG-4700B)

REC/RF AMP PACK C.B.A. (VEP03A90A)


IC3601
8
5
1
4
C3609
L3603
W32
Q3601
C3602
R3609
R3608
C3607
Q3602
L3601
R3603
R3602
C3604
C3603
R3601
C3601
C3608
C3605
R3605
R3604
R3607
R3606
W31
W1
R3611
R3610
2
1
3
W33
FL3601
R3616
L3602
C3606
W2
L3604
C3613
C3614
R3614
C3611
R3612
Q3604
Q3603
R3613
C3610
PS3601
L3605
1
5
10
11

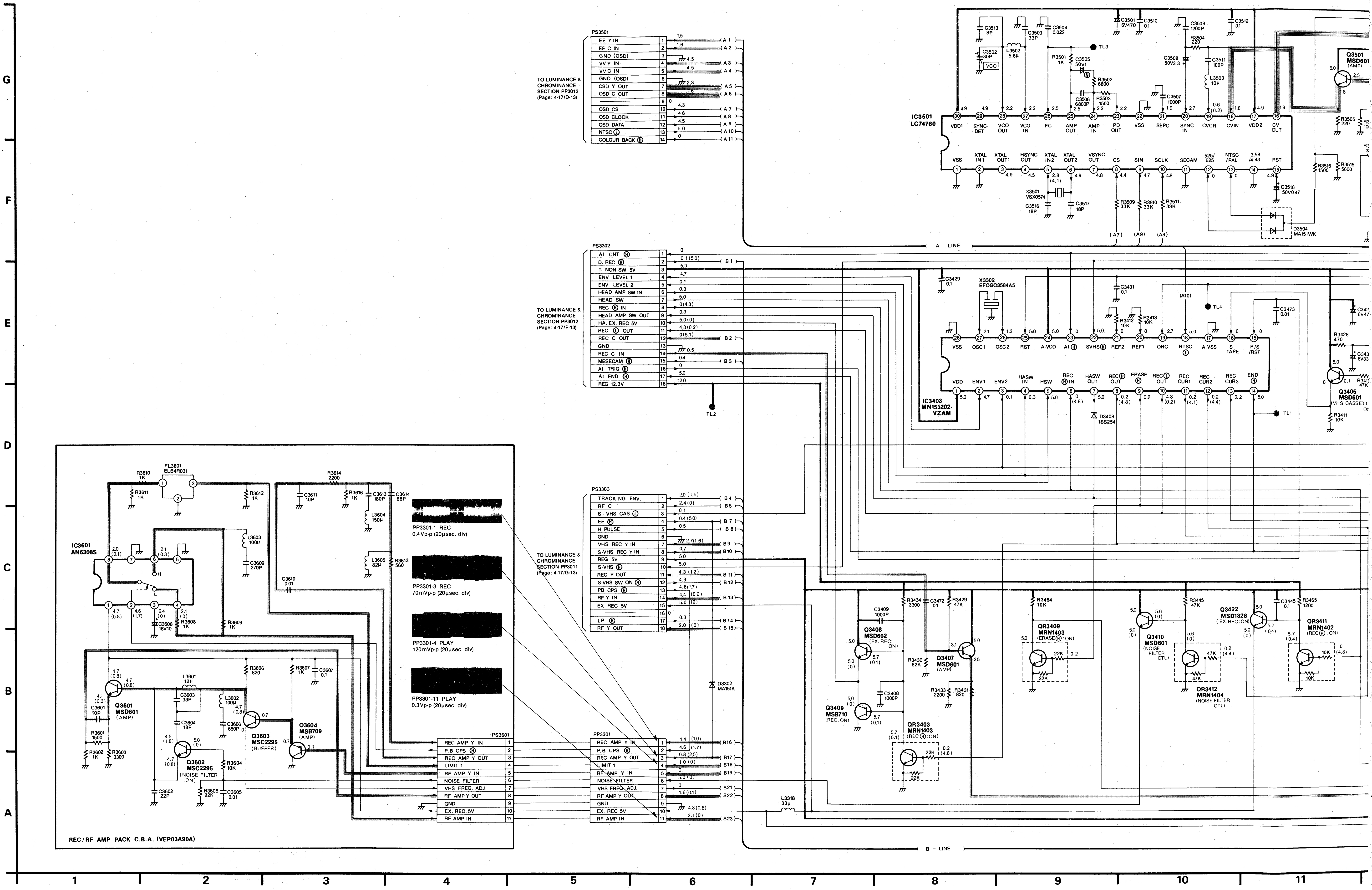
(VEP03A62C: AG-4700B)


C3423
L3404
Q3426
QR3408
QR3407
QR3406
QR3415
QR3416
QR3417
Q3412
PP3301
C3325
C3324
C3321
R3327
L3307
R3326
Q3302
R3325
R3322
Q3402
R3447
R3302
D3301
VR3301
Q3411
R3301
TL5
L3304
QR3306
IC3301
Q3301
L3315
L3316
L3306
QR3405
Q3405
Q3407
QR3404
IC3405
Q3427
Q3406
Q3425
QR3418
TL4
X3302
IC3404
IC3403
TL1
RX3401
D3408
C3474
PEAK
VR3307
VR3302
TL2
C3307
COS EQ
PS3302
PS3303
QR3409
Q3423
Q3424
Q3409
QR3410
L3415
QR3307
L3313
Q3305
Q3304
R3306
D3302
L3308
(AG-4700E)
QR3308
R3353
L3318
R3352
LP Q
VR3304
QR3302
QR3303
QR3305
VR3305
SP Q
QR3304
QR3301
L3309
L3310
D3304
L3323
3
4
5
6
7
8

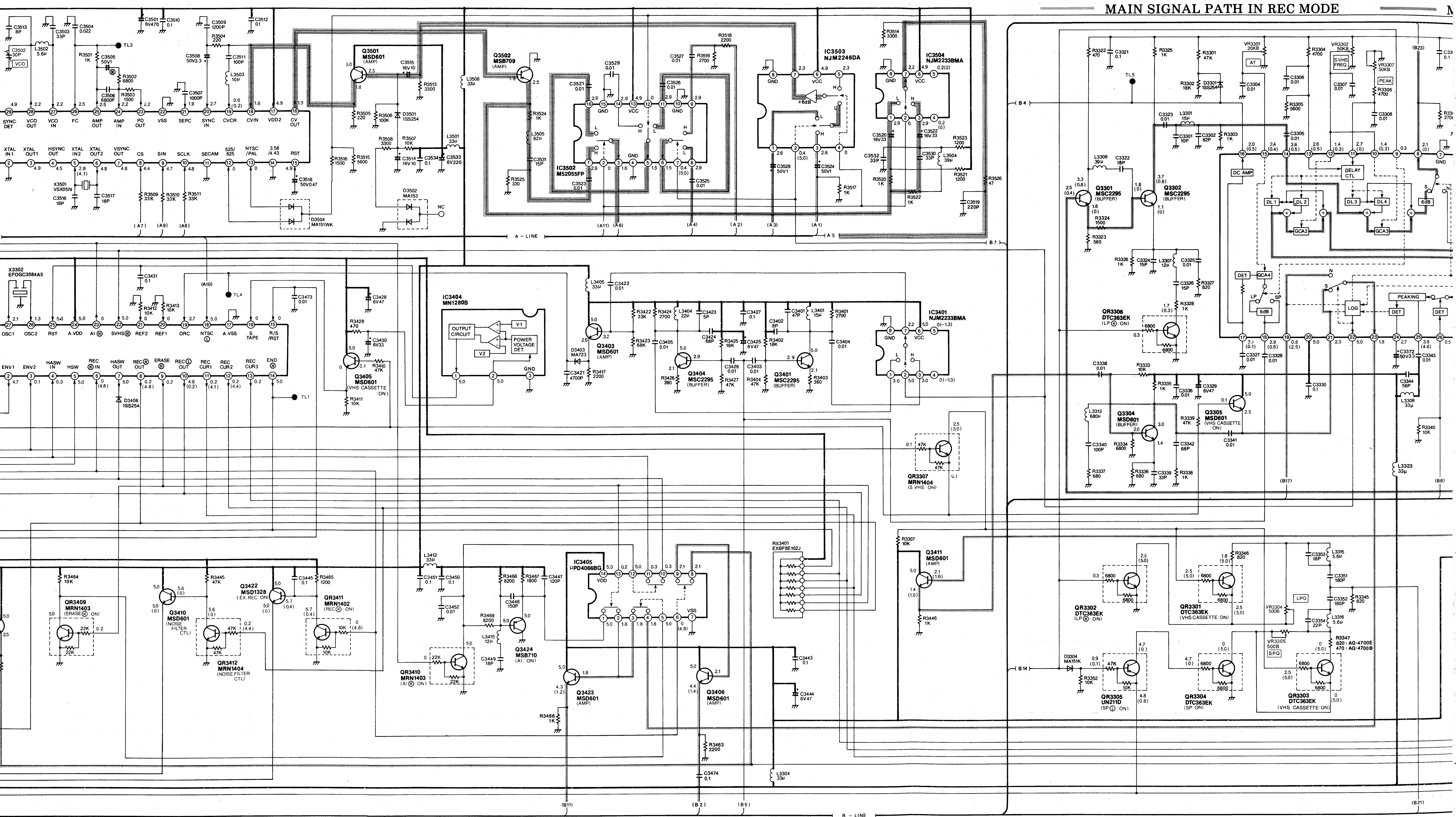
SUB LUMINANCE & CHROMINANCE PACK C.B.A.	
Transistor	
Q3301	B-7
Q3302	C-7
Q3304	A-6
Q3305	A-6
Q3401	C-3
Q3402	C-6
Q3403	B-3
Q3404	C-3
Q3405	B-5
Q3406	B-3
Q3407	B-5
Q3408	A-3
Q3409	A-3
Q3410	A-3
Q3411	B-6
Q3412	C-6
Q3422	A-3
Q3423	B-3
Q3424	A-3
Q3425	B-4
Q3426	C-4
Q3427	B-3
Q3501	C-1
Q3502	B-1
Q3601	E-6
Q3602	D-6
Q3603	D-6
Q3604	D-6
Transistor & Resistor	
QR3301	B-7
QR3302	A-7
QR3303	A-7
QR3304	A-8
QR3305	A-8
QR3306	B-6
QR3307	B-6
QR3308	A-7
QR3402	B-3
QR3403	A-3
QR3404	B-4
QR3405	B-5
QR3406	C-4
QR3407	C-4
QR3408	C-4
QR3409	B-4
QR3410	A-3
QR3411	A-3
QR3412	A-3
QR3415	C-5
QR3416	C-5
QR3417	C-5
QR3418	B-4
QR3501	A-2
Integrated Circuit	
IC3301	B-7
IC3401	B-3
IC3403	B-4
IC3404	B-4
IC3405	B-3
IC3501	B-2
IC3502	A-1
IC3503	C-2
IC3504	B-1
IC3601	E-6
Adjustment	
C3502	B-2
VR3301	B-6
VR3302	A-5
VR3304	A-7
VR3305	A-8
VR3307	A-5
Connector	
PP3301	C-6
PS3302	A-3
PS3303	A-6
PS3501	A-1
PS3601	C-6

ADDRESS INFORMATION

4-12. SUB LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM


PS3501
EE Y IN
EE C IN
GND (OSD)
VV Y IN
VV C IN
GND (OSD)
OSD Y OUT
OSD C OUT
OSD CS
OSD CLOCK
OSD DATA
NTSC Ⓛ
COLOUR BACK Ⓗ
TO LUMINANCE & CHROMINANCE SECTION PP3013 (Page: 4-17/D-13)
IC3501 LC74760
VDD1 SYNC DET VCO OUT VCO IN FC AMP OUT AMP IN PD OUT VSS SEPC SYNC IN CVCR CVIN VDD2 CV OUT
VSS XTAL IN1 XTAL OUT1 HSYNC OUT XTAL IN2 XTAL OUT2 VSYNC OUT CS SIN SCLK SECAM 525/625 NTSC /PAL 3.58 /4.43 RST
Q3501 MSD601 (AMP)
X3501 VSX0574
D3504 MA151WK
TL3
A - LINE
PS3302
AI CNT Ⓗ
D. REC Ⓗ
T. NON SW 5V
ENV LEVEL 1
ENV LEVEL 2
HEAD AMP SW IN
HEAD SW
REC Ⓗ IN
HEAD AMP SW OUT
HA. EX. REC 5V
REC Ⓛ OUT
REC C OUT
GND
REC C IN
MESECAM Ⓗ
AI TRIG Ⓗ
AI END Ⓗ
REG 12.3V
TO LUMINANCE & CHROMINANCE SECTION PP3012 (Page: 4-17/F-13)
TL2
IC3403 MN155202-VZAM
VSS OSC1 OSC2 RST A.VDD AI Ⓗ SVHSⒽ REF2 REF1 ORC NTSC Ⓛ A.VSS S TAPE R/S /RST
VDD ENV1 ENV2 HASW IN HSW REC Ⓗ IN HASW OUT RECⒽ OUT ERASE Ⓗ RECⓁ OUT REC CUR1 REC CUR2 REC CUR3 END Ⓗ
X3302 EFOGC3584A5
D3408 1SS254
TL4
TL1
Q3405 MSD601 (VHS CASSETTE)
PS3303
TRACKING ENV.
RF C
S - VHS CAS Ⓛ
EE Ⓗ
H. PULSE
GND
VHS REC Y IN
S-VHS REC Y IN
REG 5V
S-VHS
REC Y OUT
S-VHS SW ON Ⓗ
PB CPS Ⓗ
RF Y IN
EX. REC 5V
LP Ⓗ
RF Y OUT
TO LUMINANCE & CHROMINANCE SECTION PP3011 (Page: 4-17/G-13)
D3302 MA151K
L3318 33μ
PP3301
REC AMP Y IN
P.B CPS Ⓗ
REC AMP Y OUT
LIMIT 1
RF AMP Y IN
NOISE FILTER
VHS FREQ. ADJ.
RF AMP Y OUT
GND
EX. REC 5V
RF AMP IN
B - LINE
IC3601 AN6308S
FL3601 ELB4R031
Q3601 MSD601 (AMP)
Q3602 MSC2295 (NOISE FILTER ON)
Q3603 MSC2295 (BUFFER)
Q3604 MSB709 (AMP)
PP3301-1 REC 0.4Vp-p (20μsec. div)
PP3301-3 REC 70mVp-p (20μsec. div)
PP3301-4 PLAY 120mVp-p (20μsec. div)
PP3301-11 PLAY 0.3Vp-p (20μsec. div)
PS3601
REC/RF AMP PACK C.B.A. (VEP03A90A)
Q3408 MSD602 (EX. REC ON)
Q3409 MSB710 (REC ON)
Q3407 MSD601 (AMP)
QR3403 MRN1403 (REC Ⓡ ON)
QR3409 MRN1403 (ERASE Ⓡ ON)
Q3410 MSD601 (NOISE FILTER CTL)
QR3412 MRN1404 (NOISE FILTER CTL)
Q3422 MSD1328 (EX. REC ON)
QR3411 MRN1402 (REC Ⓗ ON)
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11

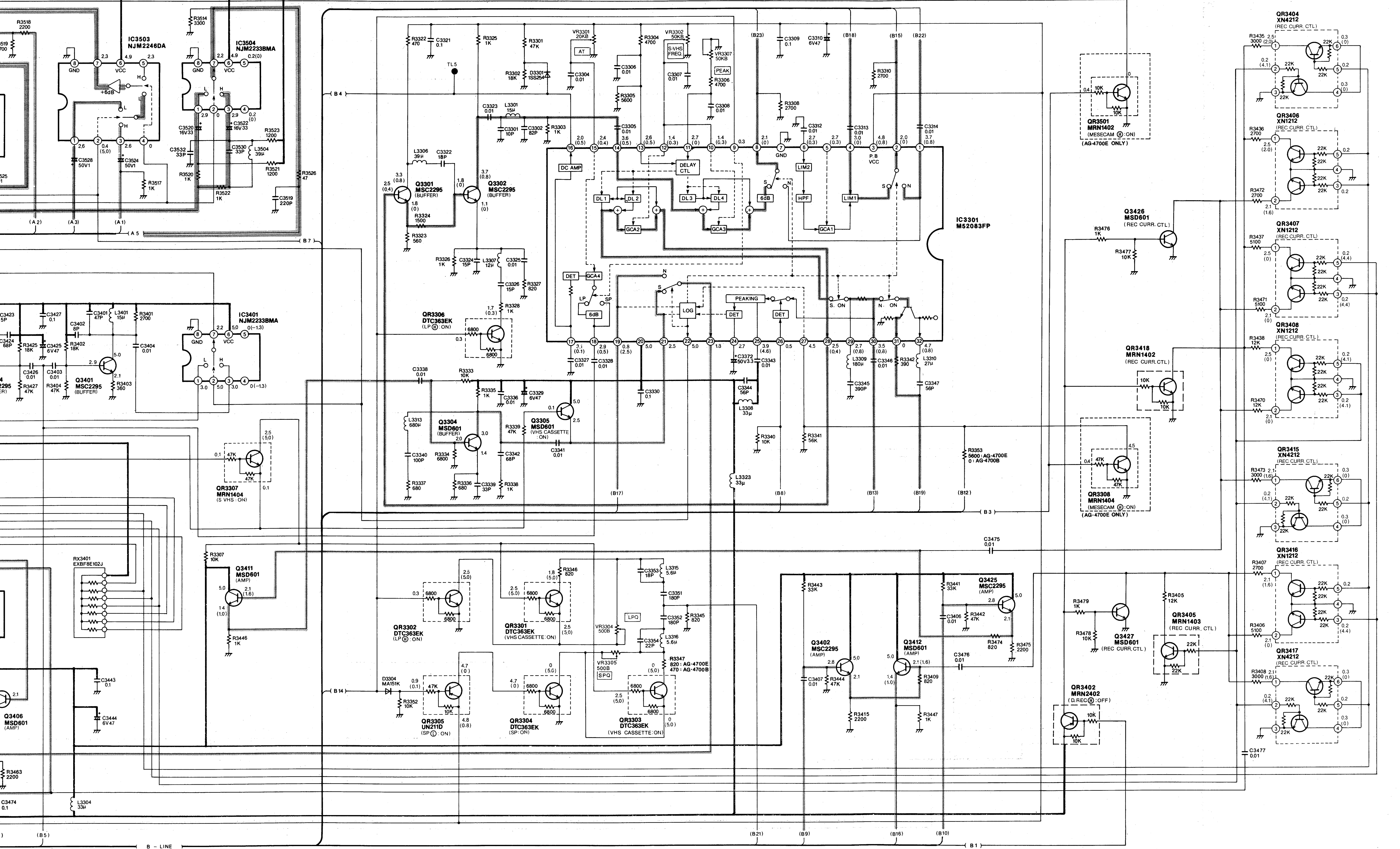
MAIN SIGNAL PATH IN REC MODE


IC3502 M52055FP
IC3503 NJM2246DA
IC3504 NJM2233BMA
IC3404 MN1280S
IC3401 NJM2233BMA
IC3405 μPD4066BG
Q3501 MSD601 (AMP)
Q3502 MSB709 (AMP)
Q3403 MSD601 (AMP)
Q3404 MSC2295 (BUFFER)
Q3401 MSC2295 (BUFFER)
Q3405 MSD601 (VHS CASSETTE : ON)
QR3307 MRN1404 (S VHS : ON)
Q3411 MSD601 (AMP)
Q3409 MRN1403 (ERASE Ⓗ : ON)
Q3410 MSD601 (NOISE FILTER CTL)
QR3412 MRN1404 (NOISE FILTER CTL)
Q3422 MSD1328 (EX.REC : ON)
QR3411 MRN1402 (REC Ⓗ : ON)
QR3410 MRN1403 (AI Ⓗ : ON)
Q3424 MSB710 (AI : ON)
Q3423 MSD601 (AMP)
Q3406 MSD601 (AMP)
RX3401 EXBF8E102J
Q3301 MSC2295 (BUFFER)
Q3302 MSC2295 (BUFFER)
QR3306 DTC363EK (LP Ⓗ : ON)
Q3304 MSD601 (BUFFER)
Q3305 MSD601 (VHS CASSETTE : ON)
QR3302 DTC363EK (LP Ⓗ : ON)
QR3301 DTC363EK (VHS CASSETTE : ON)
QR3305 UN211D (SP Ⓛ : ON)
QR3304 DTC363EK (SP : ON)
QR3303 DTC363EK (VHS CASSETTE : ON)
X3501 VSX0574
X3302 EFOGC3584A5
DC AMP
DELAY CTL
DL1
DL2
DL3
DL4
GCA2
GCA3
GCA4
6dB
DET
LOG
PEAKING
A - LINE
B - LINE
9
10
11
12
13
14
15
16
17
18
19
20

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS : SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS O WITH PAL COLOUR SIGNAL. (S-VHS : SP MODE)

MAIN SIGNAL PATH IN REC MODE   MAIN SIGNAL PATH IN PLAYBACK MODE


IC3503
NJM2246DA
IC3504
NJM2233BMA
IC3401
NJM2233BMA
IC3301
M52083FP
Q3301
MSC2295
(BUFFER)
Q3302
MSC2295
(BUFFER)
Q3304
MSD601
(BUFFER)
Q3305
MSD601
(VHS CASSETTE : ON)
Q3401
MSC2295
(BUFFER)
QR3306
DTC363EK
(LP Ⓗ : ON)
QR3307
MRN1404
(S-VHS : ON)
Q3411
MSD601
(AMP)
RX3401
EXBF8E102J
QR3302
DTC363EK
(LP Ⓗ : ON)
QR3301
DTC363EK
(VHS CASSETTE : ON)
QR3305
UN211D
(SP Ⓛ : ON)
QR3304
DTC363EK
(SP : ON)
QR3303
DTC363EK
(VHS CASSETTE : ON)
Q3402
MSC2295
(AMP)
Q3412
MSD601
(AMP)
Q3425
MSC2295
(AMP)
Q3406
MSD601
(AMP)
QR3501
MRN1402
(MESECAM Ⓡ : ON)
(AG-4700E ONLY)
QR3308
MRN1404
(MESECAM Ⓡ : ON)
(AG-4700E ONLY)
Q3426
MSD601
(REC CURR. CTL)
QR3418
MRN1402
(REC CURR. CTL)
Q3427
MSD601
(REC CURR. CTL)
QR3405
MRN1403
(REC CURR. CTL)
QR3402
MRN2402
(D.REC Ⓡ : OFF)
QR3404
XN4212
(REC CURR. CTL)
QR3406
XN1212
(REC CURR. CTL)
QR3407
XN1212
(REC CURR. CTL)
QR3408
XN1212
(REC CURR. CTL)
QR3415
XN4212
(REC CURR. CTL)
QR3416
XN1212
(REC CURR. CTL)
QR3417
XN4212
(REC CURR. CTL)
DC AMP
DELAY CTL
DL1
DL2
DL3
DL4
GCA1
GCA2
GCA3
GCA4
LIM1
LIM2
HPF
6dB
DET
LOG
PEAKING
S. ON
N. ON
P.B VCC
GND
VCC
AT
S-VHS FREQ.
PEAK
LPQ
SPQ
TL5
R3353 5600 : AG-4700E 0 : AG-4700B
R3347 820 : AG-4700E 470 : AG-4700B
(A2)
(A3)
(A1)
(A5)
(B7)
(B4)
(B3)
(B14)
(B1)
(B5)
(B17)
(B8)
(B13)
(B19)
(B12)
(B23)
(B18)
(B15)
(B22)
(B21)
(B9)
(B16)
(B10)
B - LINE

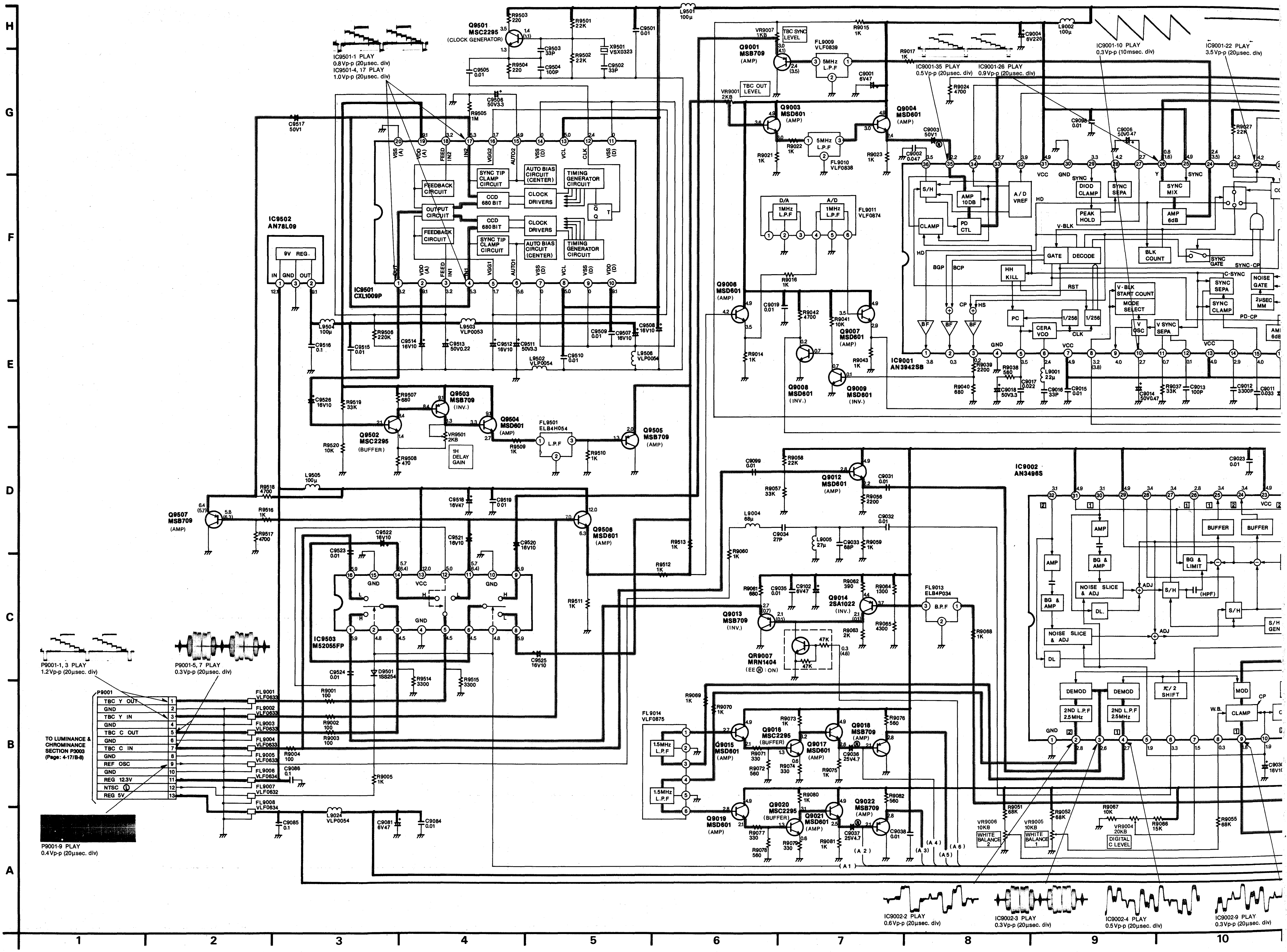
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS (   ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

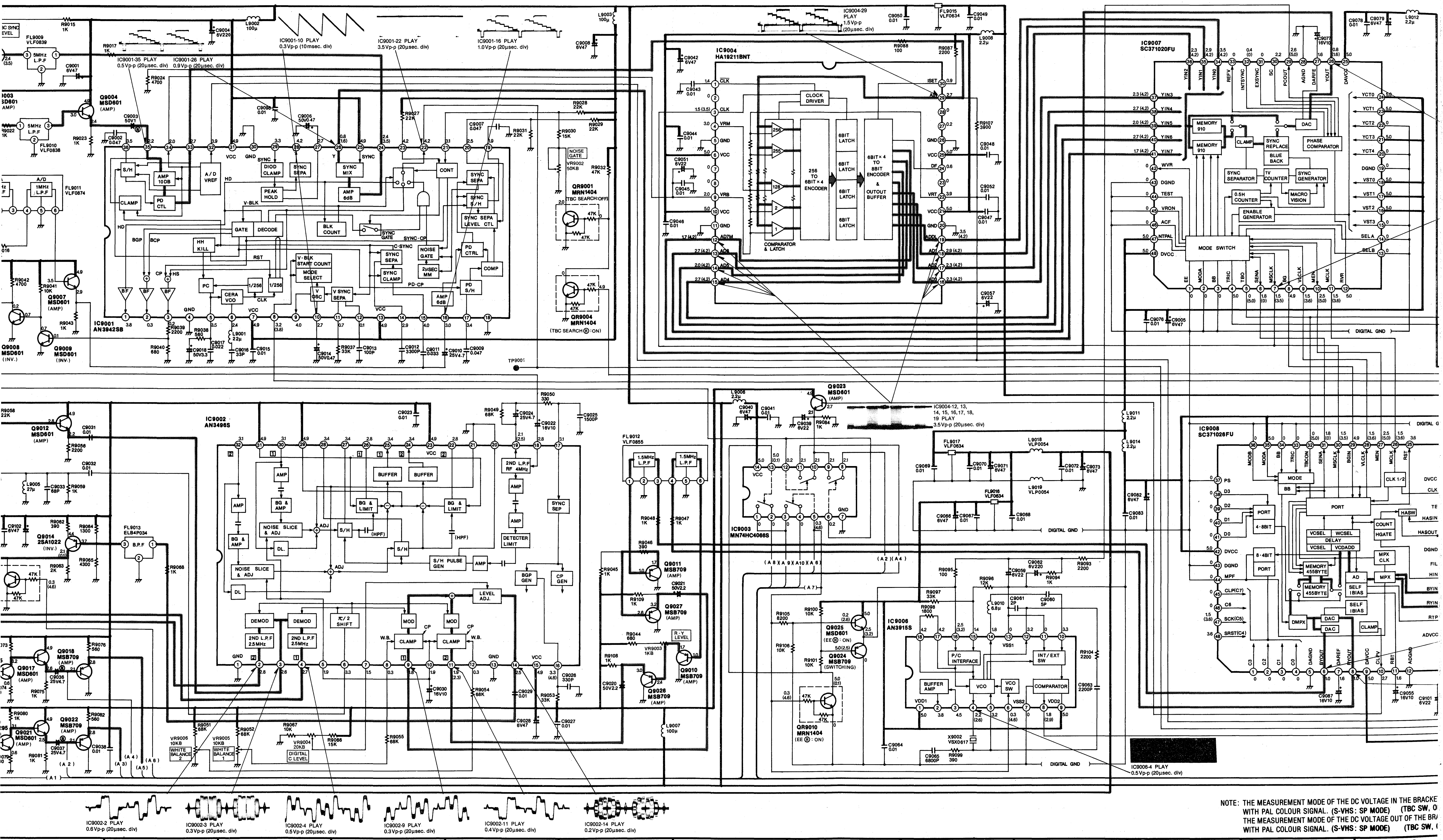
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

15 16 17 18 19 20 21 22 23 24 25

4-13. TBC SCHEMATIC DIAGRAM

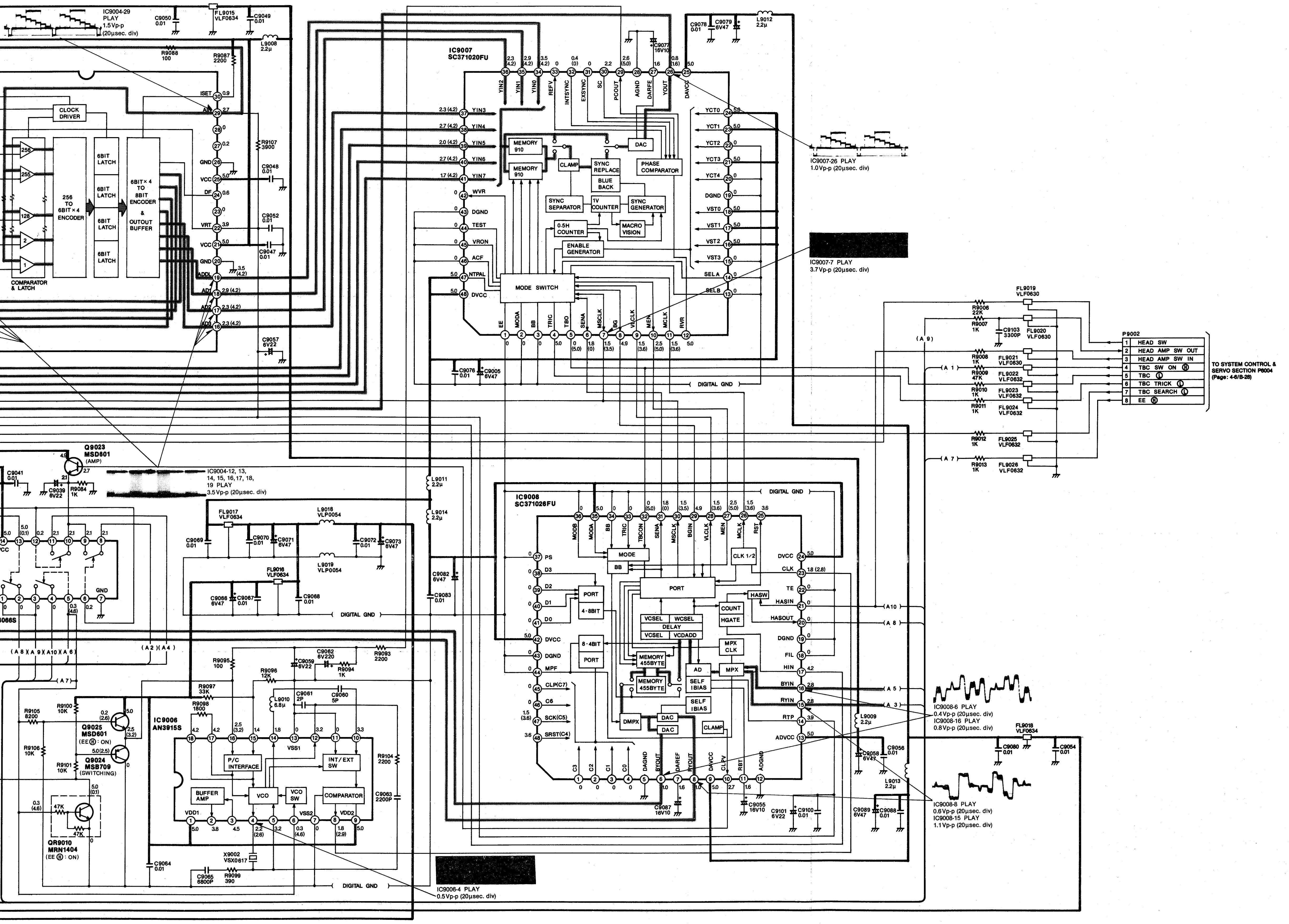

H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
IC9501-1 PLAY 0.8Vp-p (20μsec. div)
IC9501-4, 17 PLAY 1.0Vp-p (20μsec. div)
Q9501 MSC2295 (CLOCK GENERATOR)
X9501 VSX0323
IC9502 AN78L09
9V REG.
IN GND OUT
IC9501 CXL1009P
FEEDBACK CIRCUIT
OUTPUT CIRCUIT
SYNC TIP CLAMP CIRCUIT
CCD 680 BIT
AUTO BIAS CIRCUIT (CENTER)
CLOCK DRIVERS
TIMING GENERATOR CIRCUIT
Q9502 MSC2295 (BUFFER)
Q9503 MSB709 (INV.)
Q9504 MSD601 (AMP)
Q9505 MSB709 (AMP)
VR9501 2KB
1H DELAY GAIN
FL9501 ELB4H054
L.P.F
Q9506 MSD601 (AMP)
Q9507 MSB709 (AMP)
IC9503 M52055FP
D9501 1SS254
P9001-1, 3 PLAY 1.2Vp-p (20μsec. div)
P9001-5, 7 PLAY 0.3Vp-p (20μsec. div)
P9001-9 PLAY 0.4Vp-p (20μsec. div)
P9001
TBC Y OUT
GND
TBC Y IN
GND
TBC C OUT
GND
TBC C IN
GND
REF OSC
GND
REG 12.3V
NTSC
REG 5V
TO LUMINANCE & CHROMINANCE SECTION P3003 (Page: 4-17/8-8)
Q9001 MSB709 (AMP)
VR9007 1KB TBC SYNC LEVEL
VR9001 2KB TBC OUT LEVEL
FL9009 VLF0839 5MHz L.P.F
Q9003 MSD601 (AMP)
FL9010 VLF0838 5MHz L.P.F
Q9004 MSD601 (AMP)
FL9011 VLF0874
D/A 1MHz L.P.F
A/D 1MHz L.P.F
Q9006 MSD601 (AMP)
Q9007 MSD601 (AMP)
Q9008 MSD601 (INV.)
Q9009 MSD601 (INV.)
IC9001-35 PLAY 0.5Vp-p (20μsec. div)
IC9001-26 PLAY 0.9Vp-p (20μsec. div)
IC9001-10 PLAY 0.3Vp-p (10msec. div)
IC9001-22 PLAY 3.5Vp-p (20μsec. div)
IC9001 AN3942SB
S/H
AMP 10DB
A/D VREF
SYNC MIX
SYNC SEPA
DIOD CLAMP
PEAK HOLD
AMP 6dB
CLAMP
PD CTL
GATE
DECODE
BLK COUNT
SYNC GATE
HH KILL
V-BLK START COUNT
MODE SELECT
V OSC
V SYNC SEPA
SYNC SEPA
SYNC CLAMP
NOISE GATE
2μSEC MM
PC
CERA VCO
1/256
1/256
BF
Q9012 MSD601 (AMP)
Q9013 MSB709 (INV.)
Q9014 2SA1022 (INV.)
QR9007 MRN1404 (EE Ⓖ : ON)
FL9013 ELB4P034 B.P.F
FL9014 VLF0875
1.5MHz L.P.F
1.5MHz L.P.F
Q9015 MSD601 (AMP)
Q9016 MSC2295 (BUFFER)
Q9017 MSD601 (AMP)
Q9018 MSB709 (AMP)
Q9019 MSD601 (AMP)
Q9020 MSC2295 (BUFFER)
Q9021 MSD601 (AMP)
Q9022 MSB709 (AMP)
IC9002 AN3496S
AMP
BG & AMP
NOISE SLICE & ADJ
DL
BUFFER
BG & LIMIT
S/H
(HPF)
DEMOD
2ND L.P.F 2.5MHz
π/2 SHIFT
MOD
CLAMP
W.B.
VR9006 10KB WHITE BALANCE 2
VR9005 10KB WHITE BALANCE 1
VR9004 20KB DIGITAL C LEVEL
IC9002-2 PLAY 0.6Vp-p (20μsec. div)
IC9002-3 PLAY 0.3Vp-p (20μsec. div)
IC9002-4 PLAY 0.5Vp-p (20μsec. div)
IC9002-9 PLAY 0.3Vp-p (20μsec. div)

MAIN SIGNAL PATH IN PLAYBACK MODE


IC9001 AN3942SB
IC9002 AN3496S
IC9003 MN74HC4066S
IC9004 HA19211BNT
IC9006 AN3915S
IC9007 SC371020FU
IC9008 SC371026FU
Q9004 MSD601 (AMP)
Q9007 MSD601 (AMP)
Q9008 MSD601 (INV.)
Q9009 MSD601 (INV.)
Q9012 MSD601 (AMP)
Q9014 2SA1022 (INV.)
Q9017 MSD601 (AMP)
Q9018 MSB709 (AMP)
Q9021 MSD601 (AMP)
Q9022 MSB709 (AMP)
Q9023 MSD601 (AMP)
Q9011 MSB709 (AMP)
Q9027 MSB709 (AMP)
Q9010 MSB709 (AMP)
Q9026 MSB709 (AMP)
Q9025 MSD601 (EE Ⓗ : ON)
Q9024 MSB709 (SWITCHING)
QR9001 MRN1404 (TBC SEARCH Ⓗ : OFF)
QR9004 MRN1404 (TBC SEARCH Ⓗ : ON)
QR9010 MRN1404 (EE Ⓗ : ON)
FL9009 VLF0839
FL9010 VLF0838
FL9011 VLF0874
FL9012 VLF0855
FL9013 ELB4P034
FL9015 VLF0634
FL9016 VLF0634
FL9017 VLF0634
5MHz L.P.F
1MHz L.P.F
1.5MHz L.P.F
B.P.F
IC9001-10 PLAY 0.3Vp-p (10msec. div)
IC9001-22 PLAY 3.5Vp-p (20μsec. div)
IC9001-16 PLAY 1.0Vp-p (20μsec. div)
IC9001-35 PLAY 0.5Vp-p (20μsec. div)
IC9001-26 PLAY 0.9Vp-p (20μsec. div)
IC9004-29 PLAY 1.5Vp-p (20μsec. div)
IC9004-12, 13, 14, 15, 16, 17, 18, 19 PLAY 3.5Vp-p (20μsec. div)
IC9006-4 PLAY 0.5Vp-p (20μsec. div)
IC9002-2 PLAY 0.6Vp-p (20μsec. div)
IC9002-3 PLAY 0.3Vp-p (20μsec. div)
IC9002-4 PLAY 0.5Vp-p (20μsec. div)
IC9002-9 PLAY 0.3Vp-p (20μsec. div)
IC9002-11 PLAY 0.4Vp-p (20μsec. div)
IC9002-14 PLAY 0.2Vp-p (20μsec. div)
S/H
AMP 10DB
A/D VREF
DIOD CLAMP
SYNC SEPA
SYNC MIX
PEAK HOLD
AMP 6dB
CONT
SYNC SEPA
SYNC S/H
SYNC SEPA LEVEL CTL
CLAMP
PD CTL
GATE
DECODE
BLK COUNT
SYNC GATE
HH KILL
V-BLK START COUNT
MODE SELECT
NOISE GATE
2μSEC MM
PD CTRL
COMP
SYNC SEPA
SYNC CLAMP
PC
CERA VCO
1/256
V OSC
V SYNC SEPA
AMP 6dB
PD S/H
BF
CLOCK DRIVER
256 TO 6BIT×4 ENCODER
6BIT LATCH
6BIT×4 TO 8BIT ENCODER & OUTOUT BUFFER
COMPARATOR & LATCH
MEMORY 910
CLAMP
SYNC REPLACE
BLUE BACK
DAC
PHASE COMPARATOR
SYNC SEPARATOR
1V COUNTER
SYNC GENERATOR
0.5H COUNTER
MACRO VISION
ENABLE GENERATOR
MODE SWITCH
DIGITAL GND
AMP
BG & AMP
NOISE SLICE & ADJ
DL.
BG & LIMIT
BUFFER
S/H
(HPF)
S/H PULSE GEN
2ND L.P.F RF 4MHz
DETECTER LIMIT
SYNC SEP
BGP GEN
CP GEN
DEMOD
2ND L.P.F 2.5MHz
π/2 SHIFT
MOD
CLAMP
LEVEL ADJ.
R-Y LEVEL
WHITE BALANCE 2
WHITE BALANCE 1
DIGITAL C LEVEL
P/C INTERFACE
VCO
VCO SW
INT/EXT SW
BUFFER AMP
COMPARATOR
MODE
BB
PORT
4·8BIT
8·4BIT
VCSEL WCSEL DELAY
VCSEL VCDADD
MEMORY 455BYTE
COUNT
HGATE
MPX CLK
MPX
AD
SELF BIAS
DMPX
DAC
CLAMP
TP9001
X9002 VSX0617
(A 1) (A 2) (A 3) (A 4) (A 5) (A 6) (A 7)
(A 8)(A 9)(A 10)(A 6)
(A 2)(A 4)

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKE
WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE) (TBC SW, O
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BR
WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE) (TBC SW,

MAIN SIGNAL PATH IN PLAYBACK MODE

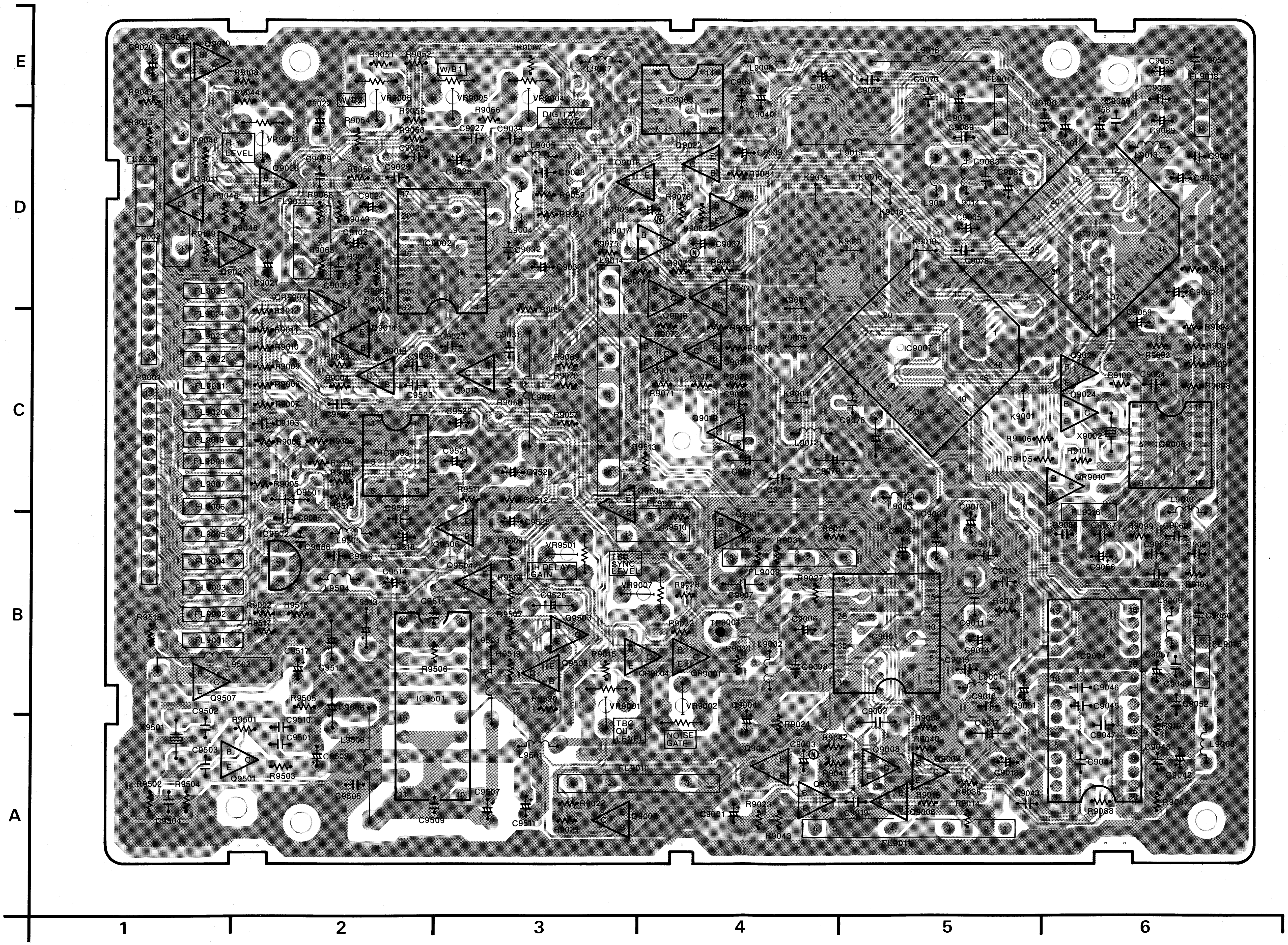

IC9007
SC371020FU
IC9008
SC371026FU
IC9006
AN3915S
IC9004-29 PLAY 1.5Vp-p (20μsec. div)
IC9007-26 PLAY 1.0Vp-p (20μsec. div)
IC9007-7 PLAY 3.7Vp-p (20μsec. div)
IC9004-12, 13, 14, 15, 16, 17, 18, 19 PLAY 3.5Vp-p (20μsec. div)
IC9008-6 PLAY 0.4Vp-p (20μsec. div)
IC9008-16 PLAY 0.8Vp-p (20μsec. div)
IC9008-8 PLAY 0.6Vp-p (20μsec. div)
IC9008-15 PLAY 1.1Vp-p (20μsec. div)
IC9006-4 PLAY 0.5Vp-p (20μsec. div)
CLOCK DRIVER
256 TO 6BIT×4 ENCODER
6BIT LATCH
6BIT×4 TO 8BIT ENCODER & OUTOUT BUFFER
COMPARATOR & LATCH
MEMORY 910
CLAMP
SYNC REPLACE
BLUE BACK
DAC
PHASE COMPARATOR
SYNC SEPARATOR
1V COUNTER
SYNC GENERATOR
0.5H COUNTER
MACRO VISION
ENABLE GENERATOR
MODE SWITCH
MODE
BB
PORT
4·8BIT
8·4BIT
CLK 1/2
HASW
COUNT
HGATE
VCSEL
WCSEL
DELAY
VCDADD
MEMORY 455BYTE
MPX CLK
MPX
AD
SELF IBIAS
DMPX
DAC
CLAMP
P/C INTERFACE
INT/EXT SW
BUFFER AMP
VCO
VCO SW
COMPARATOR
Q9023 MSD601 (AMP)
Q9025 MSD601 (EE Ⓗ: ON)
Q9024 MSB709 (SWITCHING)
QR9010 MRN1404 (EE Ⓗ: ON)
X9002 VSX0617
P9002
1 HEAD SW
2 HEAD AMP SW OUT
3 HEAD AMP SW IN
4 TBC SW ON Ⓗ
5 TBC Ⓛ
6 TBC TRICK Ⓛ
7 TBC SEARCH Ⓛ
8 EE Ⓗ
TO SYSTEM CONTROL & SERVO SECTION P6004 (Page: 4-6/B-28)
DIGITAL GND

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE) (TBC SW, ON)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE) (TBC SW, ON)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

14	15	16	17	18	19	20	21	22

4-14. TBC C.B.A. (VEP03A53A)


E
D
C
B
A
1
2
3
4
5
6
IC9001
IC9002
IC9003
IC9004
IC9006
IC9007
IC9008
IC9501
IC9502
IC9503
P9001
P9002
TP9001
W/B1
W/B2
R-Y LEVEL
DIGITAL C LEVEL
1H DELAY GAIN
TBC SYNC LEVEL
TBC OUT LEVEL
NOISE GATE
VR9001
VR9002
VR9003
VR9004
VR9005
VR9006
VR9007
VR9501
FL9010
FL9011
X9501
X9002

TBC C.B.A.	
Transistor	
Q9001	B-4
Q9003	A-3
Q9004	A-4
Q9006	A-5
Q9007	A-4
Q9008	A-5
Q9009	A-5
Q9010	E-1
Q9011	D-1
Q9012	C-3
Q9013	C-2
Q9014	C-2
Q9015	C-4
Q9016	D-4
Q9017	D-4
Q9018	D-3
Q9019	C-4
Q9020	C-4
Q9021	D-4
Q9022	D-4
Q9023	D-4
Q9024	C-6
Q9025	C-6
Q9026	D-2
Q9027	D-2
Q9501	A-2
Q9502	B-3
Q9503	B-3
Q9504	B-3
Q9505	C-3
Q9506	B-3
Q9507	B-1
Transistor & Resistor	
QR9001	B-4
QR9004	B-4
QR9007	D-2
QR9010	C-6
Integrated Circuit	
IC9001	B-5
IC9002	D-3
IC9003	E-4
IC9004	B-6
IC9006	C-6
IC9007	C-5
IC9008	D-6
IC9501	B-2
IC9502	B-2
IC9503	C-2
Test Point	
TP9001	B-4
Adjustment	
VR9001	B-3
VR9002	B-4
VR9003	D-2
VR9004	E-3
VR9005	E-3
VR9006	E-2
VR9007	B-4
VR9501	B-3
Connector	
P9001	C-1
P9002	D-1

ADDRESS INFORMATION

4-15. INPUT/OUTPUT PACK C.B.A. (VEP03A72A: AG-4700E) (VEP03A72D: AG-4700B)

INPUT/OUTPUT PACK C.B.A.

Transistor

Q3901	C-6
Q3902	C-7
Q3903	B-3
Q3904	C-6
Q3905	D-6
Q3906	D-6
Q3907	C-5
Q3912	B-7
Q3913	C-5
Q3914	C-4
Q3915	C-4
Q3916	C-4
Q3917	C-3
Q3918	C-4

Transistor & Resistor

QR3901	C-5
QR3902	C-5
QR3903	B-7
QR3904	C-4
QR3905	C-4
QR3906	C-4
QR4901	A-1
QR4902	B-1

Integrated Circuit

IC3901	B-6
IC3902	D-5
IC3904	D-4
IC4901	C-1
IC4902	B-1

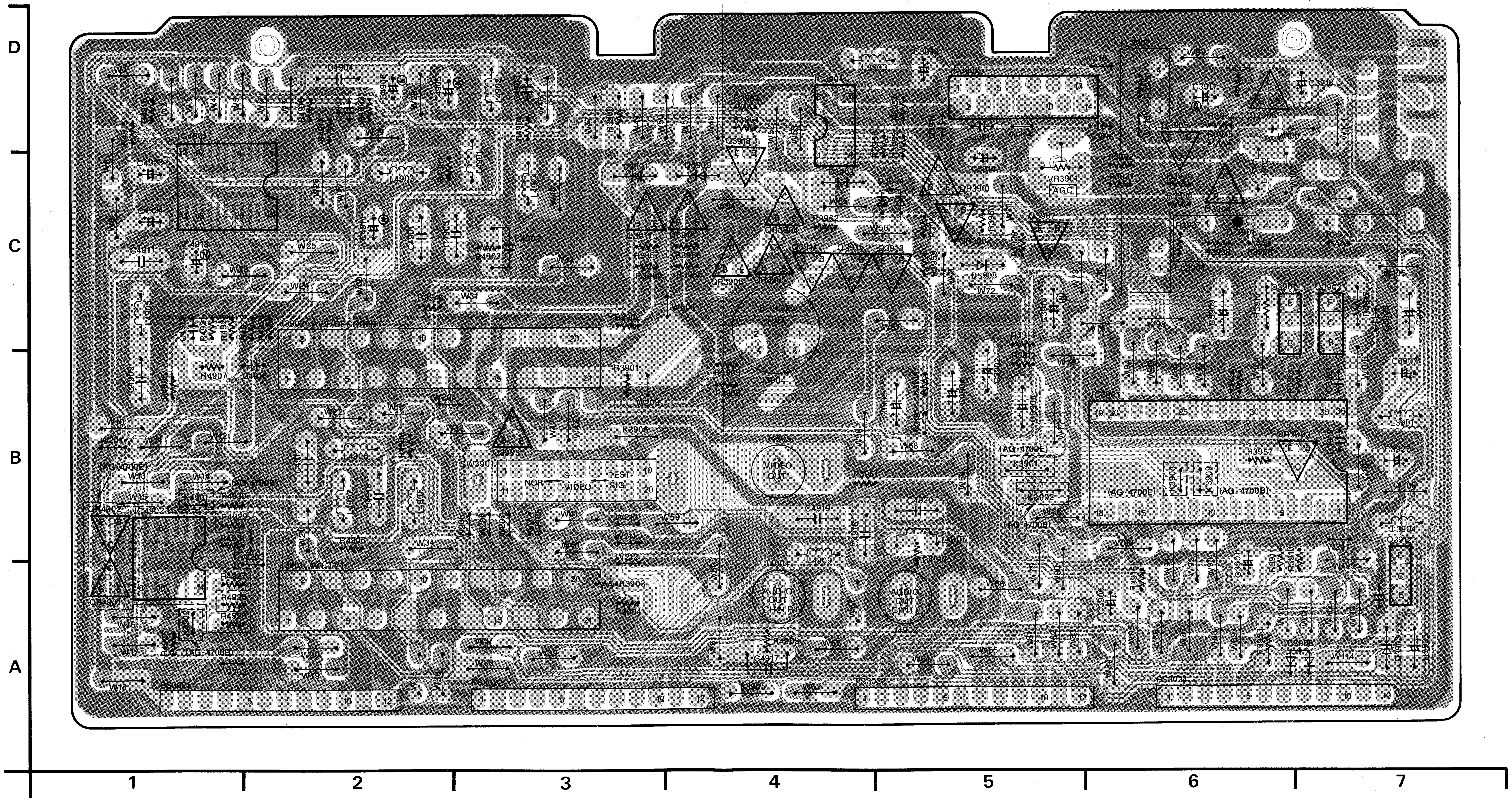
Adjustment

VR3901	C-5

Connector

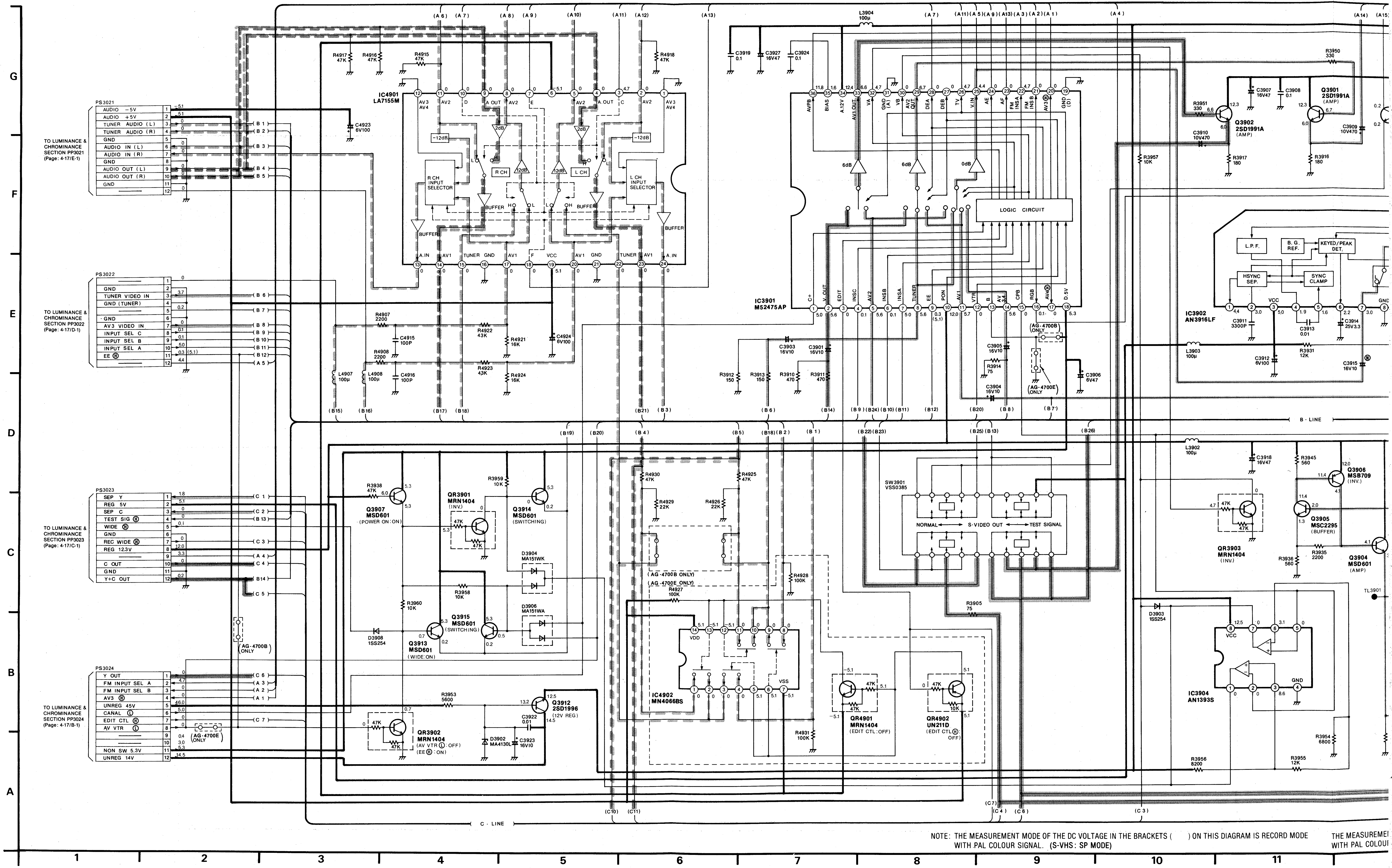
PS3021	A-1
PS3022	A-3
PS3023	A-5
PS3024	A-6

ADDRESS INFORMATION


D
C
B
A
1
2
3
4
5
6
7
IC4901
IC4902
IC3901
IC3902
IC3904
J3901 AV1(TV)
J3902 AV2(DECODER)
J3904
S-VIDEO OUT
J4905
VIDEO OUT
J4901
AUDIO OUT CH2(R)
J4902
AUDIO OUT CH1(L)
SW3901
NOR
S-VIDEO
TEST SIG
VR3901
AGC
FL3901
FL3902
TL3901
PS3021
PS3022
PS3023
PS3024
(AG-4700E)
(AG-4700B)
QR4901
QR4902
QR3901
QR3902
QR3903
QR3904
QR3905
QR3906
Q3901
Q3902
Q3903
Q3904
Q3905
Q3906
Q3907
Q3912
Q3913
Q3914
Q3915
Q3916
Q3917
Q3918

4-16. INPUT/OUTPUT PACK SCHEMATIC DIAGRAM

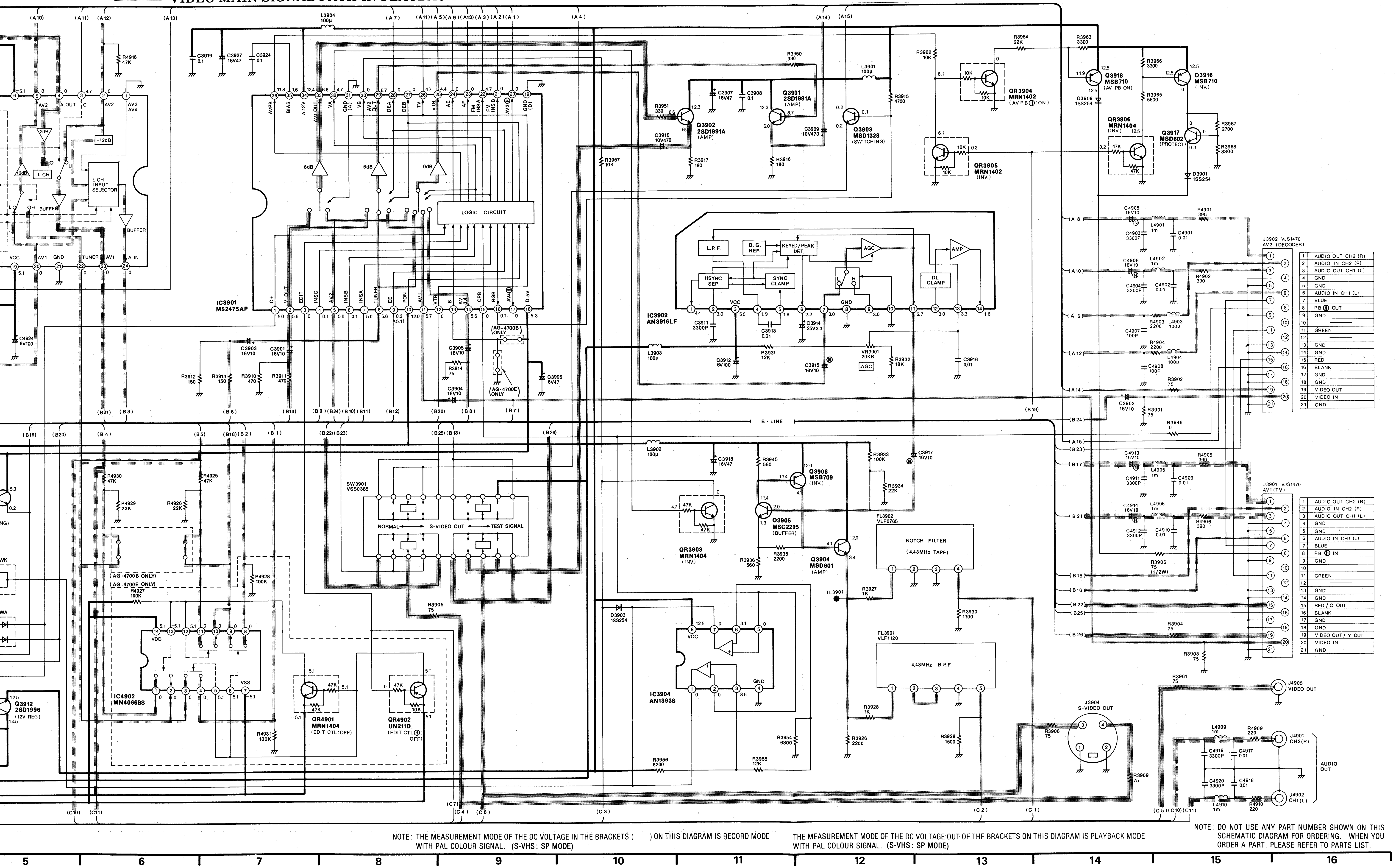
VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC
AUDIO MAIN SIGNAL PATH IN PLA


PS3021
AUDIO −5V
AUDIO +5V
TUNER AUDIO (L)
TUNER AUDIO (R)
GND
AUDIO IN (L)
AUDIO IN (R)
AUDIO OUT (L)
AUDIO OUT (R)
TO LUMINANCE & CHROMINANCE SECTION PP3021 (Page: 4-17/E-1)
PS3022
TUNER VIDEO IN
GND (TUNER)
AV3 VIDEO IN
INPUT SEL C
INPUT SEL B
INPUT SEL A
EE Ⓡ
TO LUMINANCE & CHROMINANCE SECTION PP3022 (Page: 4-17/D-1)
PS3023
SEP Y
REG 5V
SEP C
TEST SIG Ⓡ
WIDE Ⓡ
REC WIDE Ⓡ
REG 12.3V
C OUT
Y+C OUT
TO LUMINANCE & CHROMINANCE SECTION PP3023 (Page: 4-17/C-1)
PS3024
Y OUT
FM INPUT SEL A
FM INPUT SEL B
AV3 Ⓡ
UNREG 45V
CANAL Ⓛ
EDIT CTL Ⓡ
AV VTR Ⓛ
NON SW 5.3V
UNREG 14V
TO LUMINANCE & CHROMINANCE SECTION PP3024 (Page: 4-17/B-1)
IC4901 LA7155M
R CH INPUT SELECTOR
L CH INPUT SELECTOR
BUFFER
IC3901 M52475AP
LOGIC CIRCUIT
IC3902 AN3916LF
L.P.F.
B.G. REF.
KEYED/PEAK DET.
HSYNC SEP.
SYNC CLAMP
Q3901 2SD1991A (AMP)
Q3902 2SD1991A (AMP)
Q3907 MSD601 (POWER ON:ON)
QR3901 MRN1404 (INV.)
Q3914 MSD601 (SWITCHING)
Q3915 MSD601 (SWITCHING)
Q3913 MSD601 (WIDE:ON)
QR3902 MRN1404 (AV VTR Ⓛ: OFF) (EE Ⓡ: ON)
Q3912 2SD1996 (12V REG)
D3904 MA151WK
D3906 MA151WA
D3908 1SS254
D3902 MA4130L
IC4902 MN4066BS
(AG-4700B ONLY)
(AG-4700E ONLY)
QR4901 MRN1404 (EDIT CTL:OFF)
QR4902 UN211D (EDIT CTL Ⓡ: OFF)
SW3901 VSS0385
NORMAL ← S-VIDEO OUT → TEST SIGNAL
Q3906 MSB709 (INV.)
Q3905 MSC2295 (BUFFER)
QR3903 MRN1404 (INV.)
Q3904 MSD601 (AMP)
IC3904 AN1393S
D3903 1SS254
B-LINE
C-LINE
TL3901
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

THE MEASUREMEI WITH PAL COLOUI

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE


IC3901
M52475AP
LOGIC CIRCUIT
IC3902
AN3916LF
L.P.F.
B.G. REF.
KEYED/PEAK DET.
AGC
AMP
HSYNC SEP.
SYNC CLAMP
DL CLAMP
Q3902
2SD1991A
(AMP)
Q3901
2SD1991A
(AMP)
Q3903
MSD1328
(SWITCHING)
QR3904
MRN1402
(AV P.B Ⓗ : ON)
QR3905
MRN1402
(INV.)
Q3918
MSB710
(AV PB:ON)
Q3916
MSB710
(INV.)
QR3906
MRN1404
(INV.)
Q3917
MSD602
(PROTECT)
D3909
1SS254
D3901
1SS254
SW3901
VSS0385
NORMAL ← S-VIDEO OUT → TEST SIGNAL
(AG-4700B ONLY)
(AG-4700E ONLY)
B-LINE
Q3906
MSB709
(INV.)
Q3905
MSC2295
(BUFFER)
Q3904
MSD601
(AMP)
QR3903
MRN1404
(INV.)
FL3902
VLF0765
NOTCH FILTER
(4.43MHz TAPE)
FL3901
VLF1120
4.43MHz B.P.F.
TL3901
IC3904
AN1393S
D3903
1SS254
IC4902
MN4066BS
QR4901
MRN1404
(EDIT CTL:OFF)
QR4902
UN211D
(EDIT CTL Ⓗ : OFF)
Q3912
2SD1996
(12V REG)
L CH INPUT SELECTOR
BUFFER
J3904
S-VIDEO OUT
J4905
VIDEO OUT
J4901
CH2(R)
J4902
CH1(L)
AUDIO OUT
J3902 VJS1470
AV2.(DECODER)
J3901 VJS1470
AV1(TV)
5
6
7
8
9
10
11
12
13
14
15
16

J3902 VJS1470 AV2.(DECODER)

1	AUDIO OUT CH2 (R)
2	AUDIO IN CH2 (R)
3	AUDIO OUT CH1 (L)
4	GND
5	GND
6	AUDIO IN CH1 (L)
7	BLUE
8	PB Ⓗ OUT
9	GND
10	———
11	GREEN
12	———
13	GND
14	GND
15	RED
16	BLANK
17	GND
18	GND
19	VIDEO OUT
20	VIDEO IN
21	GND

J3901 VJS1470 AV1(TV)

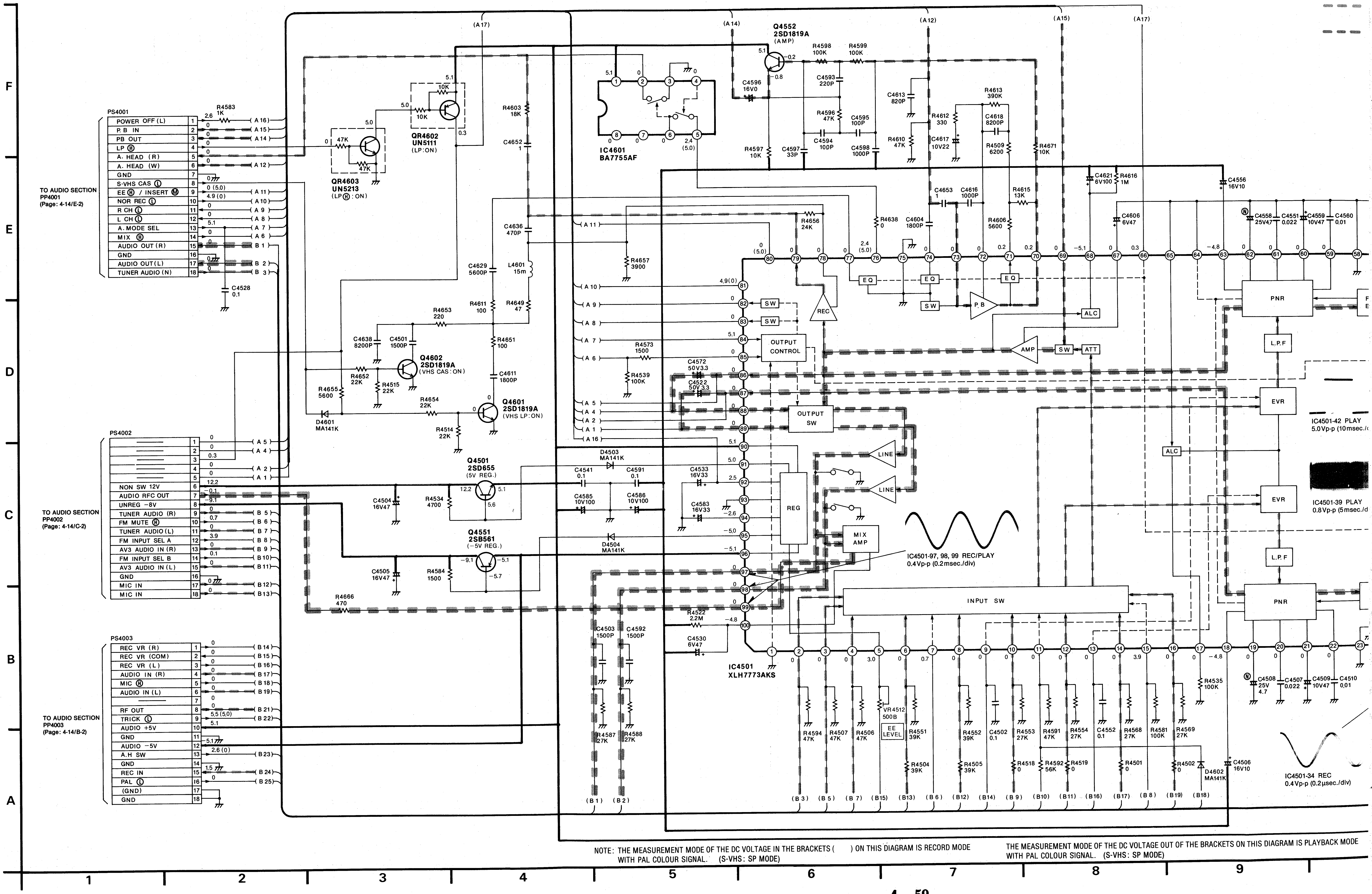
1	AUDIO OUT CH2 (R)
2	AUDIO IN CH2 (R)
3	AUDIO OUT CH1 (L)
4	GND
5	GND
6	AUDIO IN CH1 (L)
7	BLUE
8	PB Ⓗ IN
9	GND
10	———
11	GREEN
12	———
13	GND
14	GND
15	RED / C OUT
16	BLANK
17	GND
18	GND
19	VIDEO OUT / Y OUT
20	VIDEO IN
21	GND

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

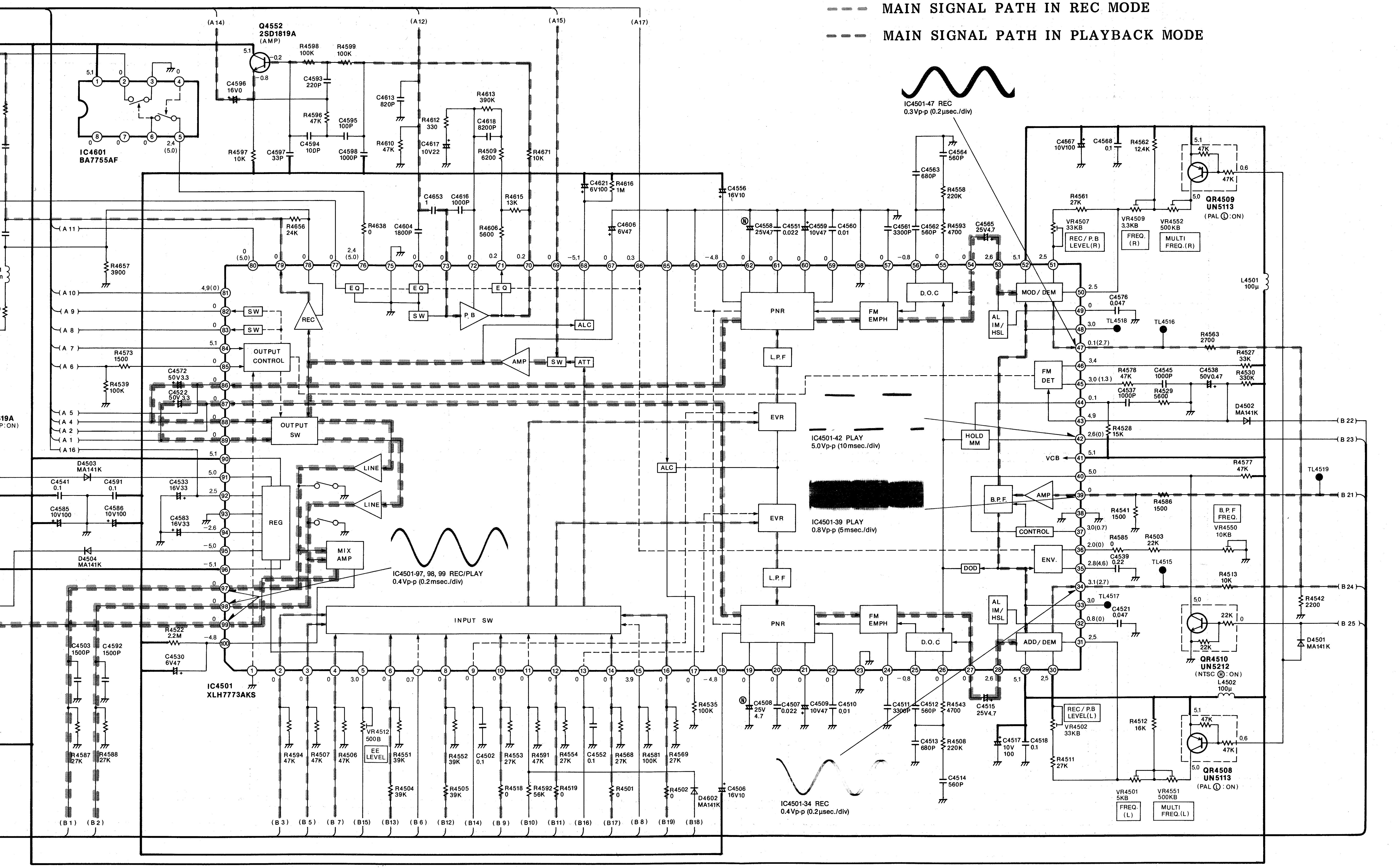
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-17. Hi-Fi AUDIO PACK SCHEMATIC DIAGRAM


PS4001
POWER OFF (L)
P.B IN
PB OUT
LP Ⓗ
A. HEAD (R)
A. HEAD (W)
GND
S-VHS CAS Ⓛ
EE Ⓗ / INSERT Ⓜ
NOR REC Ⓛ
R CH Ⓛ
L CH Ⓛ
A. MODE SEL
MIX Ⓗ
AUDIO OUT (R)
GND
AUDIO OUT (L)
TUNER AUDIO (N)
TO AUDIO SECTION PP4001 (Page: 4-14/E-2)
PS4002
NON SW 12V
AUDIO RFC OUT
UNREG −8V
TUNER AUDIO (R)
FM MUTE Ⓗ
TUNER AUDIO (L)
FM INPUT SEL A
AV3 AUDIO IN (R)
FM INPUT SEL B
AV3 AUDIO IN (L)
GND
MIC IN
MIC IN
TO AUDIO SECTION PP4002 (Page: 4-14/C-2)
PS4003
REC VR (R)
REC VR (COM)
REC VR (L)
AUDIO IN (R)
MIC Ⓗ
AUDIO IN (L)
RF OUT
TRICK Ⓛ
AUDIO +5V
GND
AUDIO −5V
A.H SW
GND
REC IN
PAL Ⓛ
(GND)
GND
TO AUDIO SECTION PP4003 (Page: 4-14/B-2)
R4583 1K
C4528 0.1
QR4603 UN5213 (LP Ⓗ : ON)
QR4602 UN5111 (LP:ON)
R4603 18K
C4652 1
C4636 470P
C4629 5600P
L4601 15m
R4611 100
R4649 47
R4653 220
C4638 8200P
C4501 1500P
Q4602 2SD1819A (VHS CAS:ON)
R4652 22K
R4515 22K
R4655 5600
R4651 100
C4611 1800P
R4654 22K
Q4601 2SD1819A (VHS LP:ON)
D4601 MA141K
R4514 22K
Q4501 2SD655 (5V REG.)
C4504 16V47
R4534 4700
Q4551 2SB561 (−5V REG.)
C4505 16V47
R4584 1500
R4666 470
IC4601 BA7755AF
Q4552 2SD1819A (AMP)
C4596 16V0
R4598 100K
R4599 100K
C4593 220P
R4596 47K
C4595 100P
C4594 100P
C4598 1000P
R4597 10K
C4597 33P
C4613 820P
R4612 330
R4613 390K
C4618 8200P
R4610 47K
C4617 10V22
R4509 6200
R4671 10K
C4621 6V100
R4616 1M
C4556 16V10
C4653 1
C4616 1000P
R4615 13K
R4656 24K
R4638 0
C4604 1800P
R4606 5600
C4606 6V47
C4558 25V47
C4551 0.022
C4559 10V47
C4560 0.01
R4657 3900
R4573 1500
R4539 100K
C4572 50V3.3
C4522 50V3.3
D4503 MA141K
C4541 0.1
C4591 0.1
C4585 10V100
C4586 10V100
C4533 16V33
C4583 16V33
D4504 MA141K
R4522 2.2M
C4530 6V47
C4503 1500P
C4592 1500P
R4587 27K
R4588 27K
EQ
SW
P.B
REC
OUTPUT CONTROL
OUTPUT SW
AMP
ATT
ALC
PNR
L.P.F
EVR
LINE
REG
MIX AMP
INPUT SW
IC4501 XLH7773AKS
IC4501-97, 98, 99 REC/PLAY 0.4Vp-p (0.2msec./div)
IC4501-42 PLAY 5.0Vp-p (10msec./
IC4501-39 PLAY 0.8Vp-p (5msec./d
IC4501-34 REC 0.4Vp-p (0.2μsec./div)
VR4512 500B
EE LEVEL
R4594 47K
R4507 47K
R4506 47K
R4551 39K
R4504 39K
R4552 39K
R4505 39K
C4502 0.1
R4553 27K
R4518 0
R4591 47K
R4592 56K
R4554 27K
R4519 0
C4552 0.1
R4568 27K
R4501 0
R4581 100K
R4569 27K
R4502 0
D4602 MA141K
C4506 16V10
R4535 100K
C4508 25V 4.7
C4507 0.022
C4509 10V47
C4510 0.01
(A17)
(A14)
(A12)
(A15)
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)


MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
IC4601
BA7755AF
Q4552
2SD1819A
(AMP)
IC4501
XLH7773AKS
IC4501-47 REC
0.3Vp-p (0.2µsec./div)
IC4501-42 PLAY
5.0Vp-p (10msec./div)
IC4501-39 PLAY
0.8Vp-p (5msec./div)
IC4501-97, 98, 99 REC/PLAY
0.4Vp-p (0.2msec./div)
IC4501-34 REC
0.4Vp-p (0.2µsec./div)
OUTPUT CONTROL
OUTPUT SW
REC
SW
P.B
EQ
ALC
AMP
ATT
LINE
REG
MIX AMP
INPUT SW
PNR
FM EMPH
D.O.C
L.P.F
EVR
MOD/DEM
ADD/DEM
FM DET
HOLD MM
AL IM/HSL
B.P.F.
CONTROL
ENV.
DOD
VCB
REC/P.B LEVEL(R)
FREQ. (R)
MULTI FREQ.(R)
REC/P.B LEVEL(L)
FREQ. (L)
MULTI FREQ.(L)
B.P.F FREQ.
EE LEVEL
QR4509
UN5113
(PAL Ⓛ:ON)
QR4510
UN5212
(NTSC Ⓗ:ON)
QR4508
UN5113
(PAL Ⓛ:ON)
L4501
100µ
L4502
100µ
TL4515
TL4516
TL4517
TL4518
TL4519
D4501 MA141K
D4502 MA141K
D4503 MA141K
D4504 MA141K
D4602 MA141K
(A14)
(A12)
(A15)
(A17)
(A11)
(A10)
(A9)
(A8)
(A7)
(A6)
(A5)
(A4)
(A2)
(A1)
(A16)
(B1)
(B2)
(B3)
(B5)
(B7)
(B15)
(B13)
(B6)
(B12)
(B14)
(B9)
(B10)
(B11)
(B16)
(B17)
(B8)
(B19)
(B18)
(B22)
(B23)
(B21)
(B24)
(B25)

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

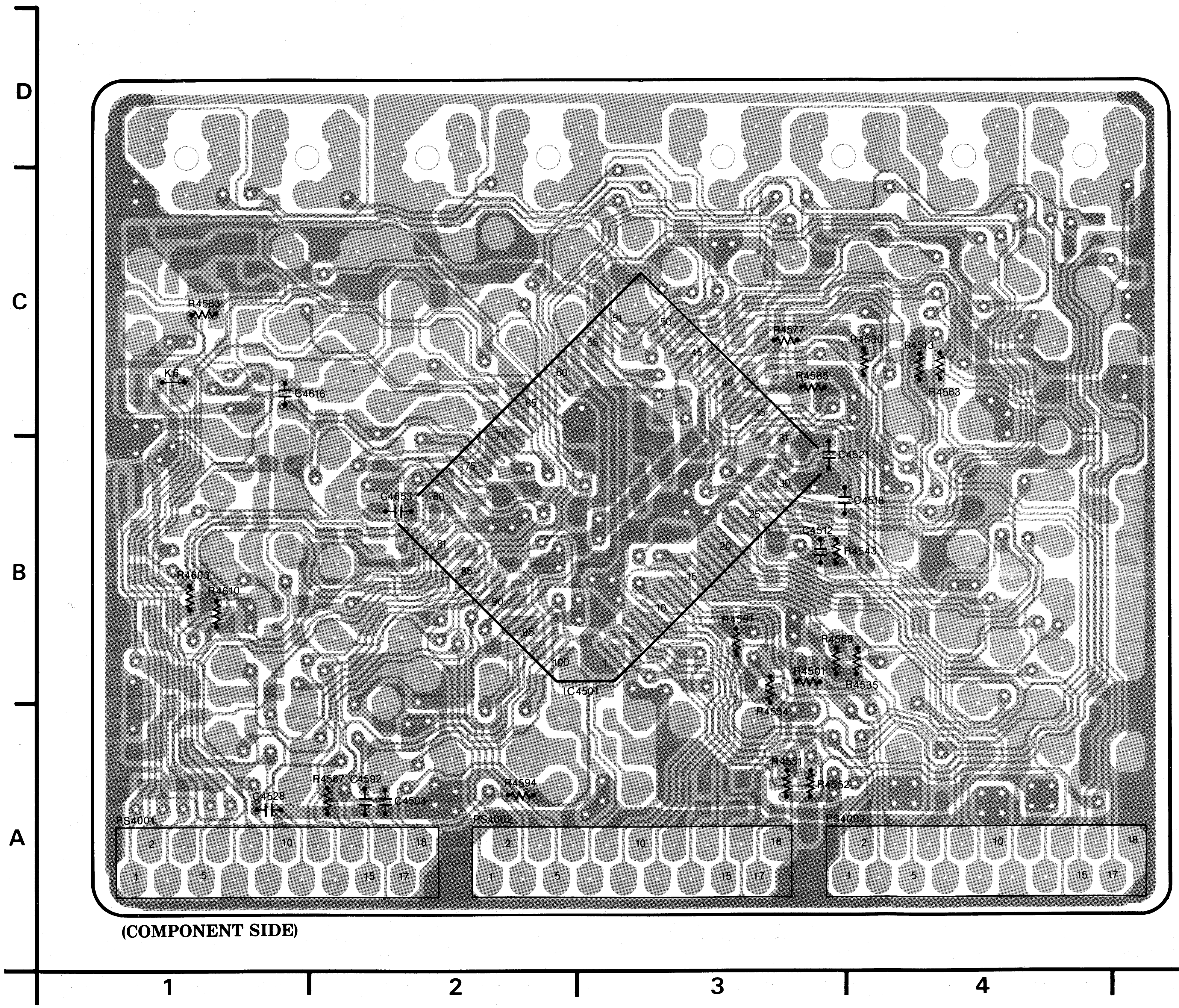
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

• LINE IN SIGNAL LEVEL…−10dB 1kHz

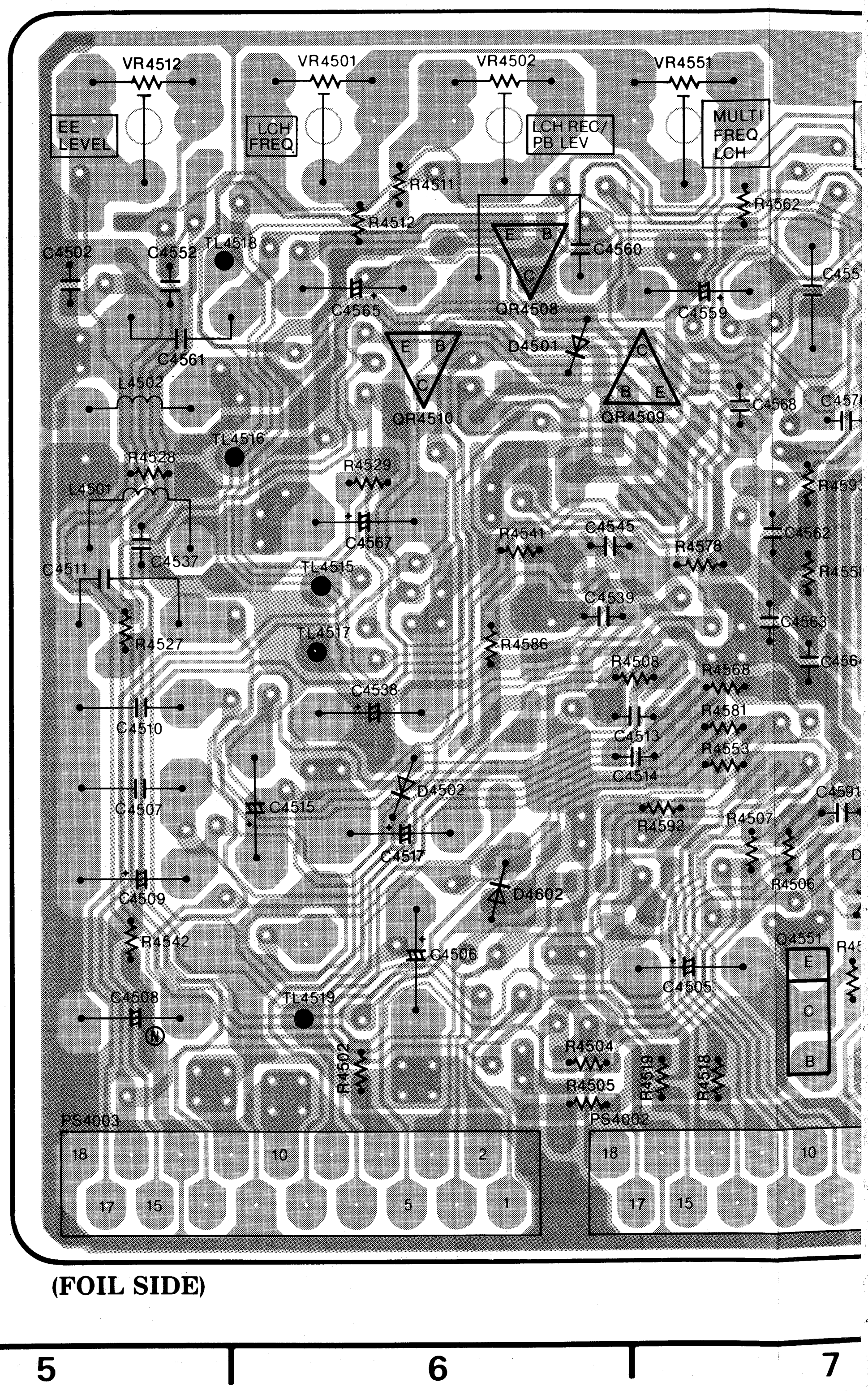
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

5 6 7 8 9 10 11 12 13

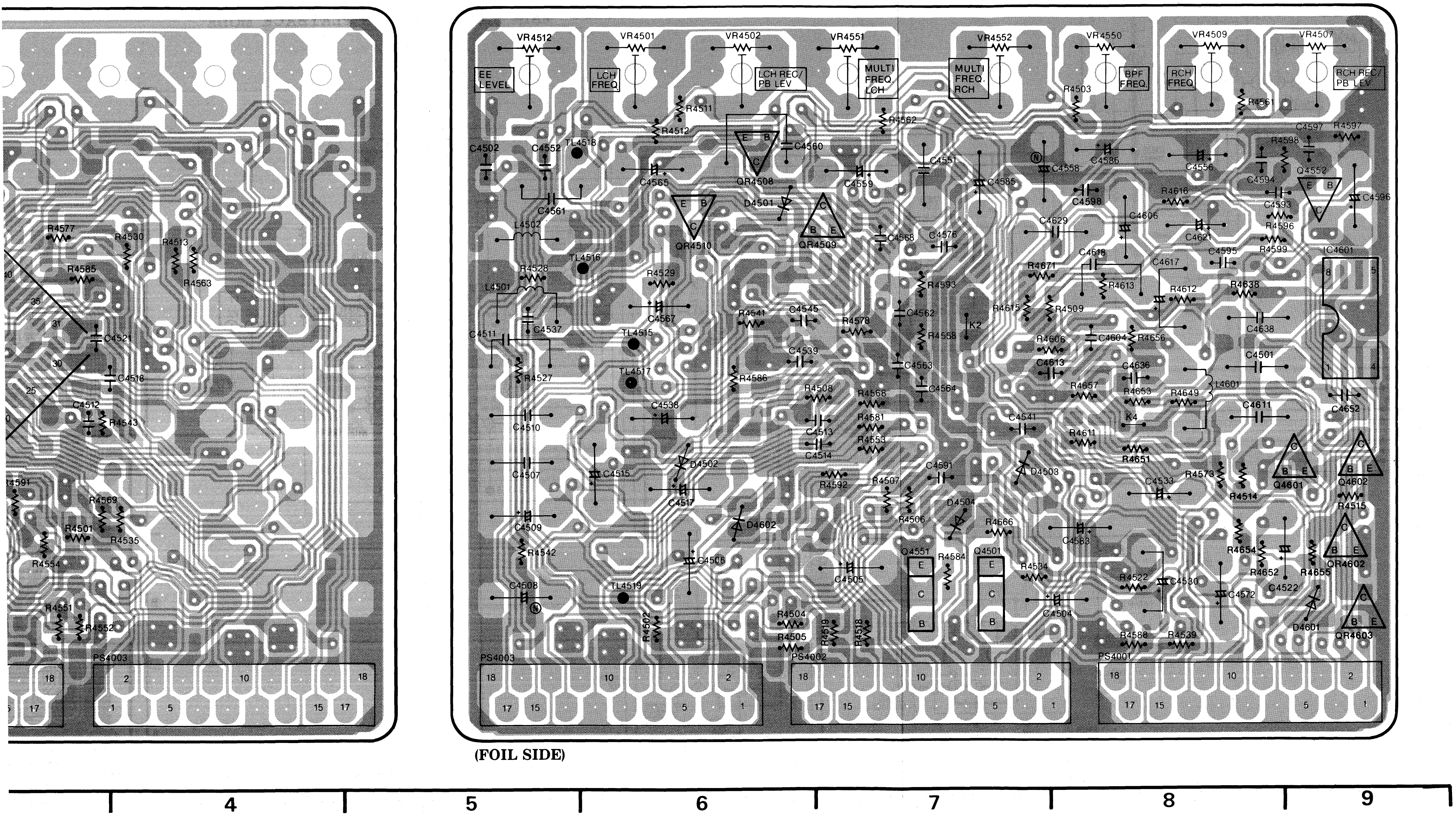
4-18. Hi-Fi AUDIO PACK C.B.A. (VEP04447E)


D
C
B
A
1
2
3
4
R4583
K6
C4616
C4653
IC4501
51
50
55
45
60
40
65
35
70
31
75
30
80
25
81
20
85
15
90
10
95
5
100
1
R4577
R4530
R4513
R4585
R4563
C4521
C4518
C4512
R4543
R4603
R4610
R4591
R4569
R4501
R4535
R4554
R4551
R4552
R4587
C4592
C4503
C4528
R4594
PS4001
PS4002
PS4003
2
10
18
1
5
15
17

(COMPONENT SIDE)


VR4512
VR4501
VR4502
VR4551
EE LEVEL
LCH FREQ
LCH REC/ PB LEV
MULTI FREQ. LCH
R4511
R4512
R4562
C4502
C4552
TL4518
C4560
C4565
QR4508
C4559
C4561
D4501
L4502
QR4510
QR4509
C4568
TL4516
R4528
R4529
L4501
C4567
R4541
C4545
R4578
C4537
C4511
TL4515
C4539
R4527
TL4517
R4586
R4508
R4568
C4538
R4581
C4510
C4513
R4553
C4514
C4515
D4502
C4507
R4592
R4507
C4517
C4509
D4602
R4506
R4542
C4506
Q4551
C4505
C4508
TL4519
R4504
R4502
R4505
R4519
R4518
E
B
C
PS4003
PS4002
18
17
15
10
5
2
1
5
6
7

(FOIL SIDE)

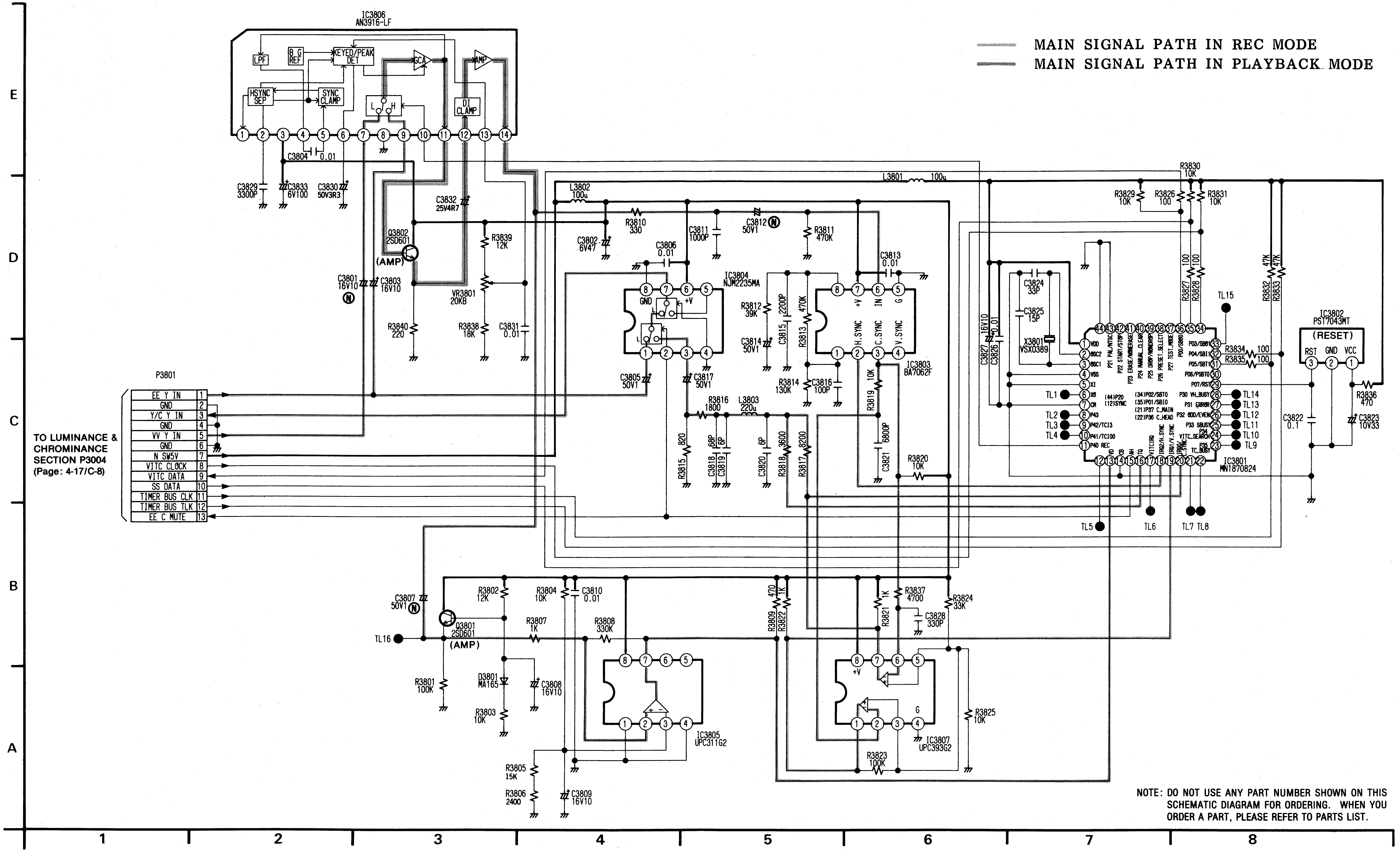

VR4512
VR4501
VR4502
VR4551
VR4552
VR4550
VR4509
VR4507
EE LEVEL
LCH FREQ
LCH REC/ PB LEV
MULTI FREQ. LCH
MULTI FREQ. RCH
BPF FREQ.
RCH FREQ
RCH REC/ PB LEV
QR4508
QR4509
QR4510
QR4602
QR4603
Q4501
Q4551
Q4552
Q4601
Q4602
IC4601
TL4515
TL4516
TL4517
TL4518
TL4519
D4501
D4502
D4503
D4504
D4601
D4602
L4501
L4502
L4601
K2
K4
C4502
C4552
C4560
C4565
C4561
C4559
C4551
C4585
C4558
C4586
C4556
C4597
C4596
C4594
C4593
C4598
C4606
C4621
C4629
C4595
C4568
C4576
C4618
C4617
C4537
C4511
C4567
C4545
C4539
C4562
C4563
C4564
C4604
C4638
C4613
C4636
C4501
C4611
C4652
C4510
C4538
C4513
C4514
C4541
C4591
C4507
C4515
C4517
C4533
C4509
C4506
C4505
C4583
C4530
C4572
C4522
C4504
C4508
C4521
C4518
C4512
R4511
R4512
R4562
R4503
R4561
R4597
R4598
R4616
R4596
R4599
R4528
R4529
R4593
R4671
R4613
R4612
R4638
R4541
R4578
R4558
R4615
R4509
R4606
R4656
R4527
R4586
R4508
R4568
R4581
R4553
R4657
R4653
R4649
R4611
R4651
R4592
R4507
R4506
R4573
R4514
R4515
R4542
R4584
R4666
R4534
R4654
R4652
R4655
R4522
R4504
R4505
R4519
R4518
R4502
R4588
R4539
R4577
R4530
R4513
R4563
R4585
R4543
R4591
R4569
R4501
R4535
R4554
R4551
R4552
PS4001
PS4002
PS4003
E B C
18 10 2
17 15 5 1
40 35 31 30 25
4 5 6 7 8 9

(FOIL SIDE)

Hi-Fi AUDIO PACK C.B.A.	
Transistor	
Q4501	A-7
Q4551	A-7
Q4552	C-9
Q4601	B-9
Q4602	B-9
Transistor & Resistor	
QR4508	C-6
QR4509	C-7
QR4510	C-6
QR4602	A-9
QR4603	A-9
Integrated Circuit	
IC4501	B-3
IC4601	C-9
Adjustment	
VR4501	D-6
VR4502	D-6
VR4507	D-9
VR4509	D-8
VR4512	D-5
VR4550	D-8
VR4551	D-7
VR4552	D-7
Connector	
PS4001	A-1
PS4001	A-8
PS4002	A-2
PS4002	A-7
PS4003	A-4
PS4003	A-5

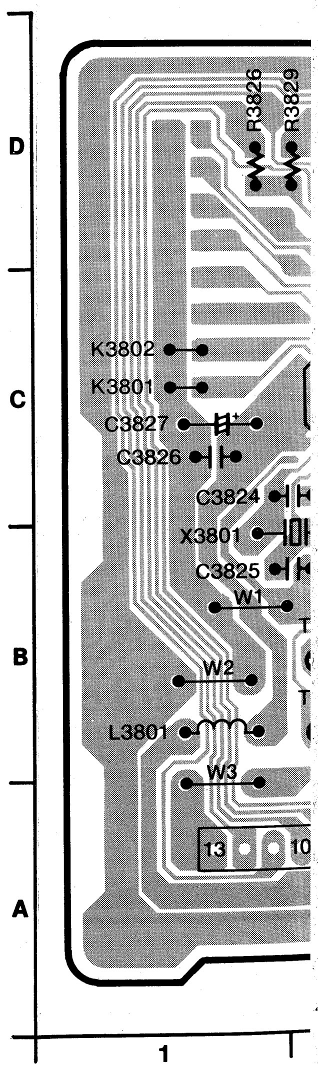
ADDRESS INFORMATION

4-19. VITC SCHEMATIC DIAGRAM

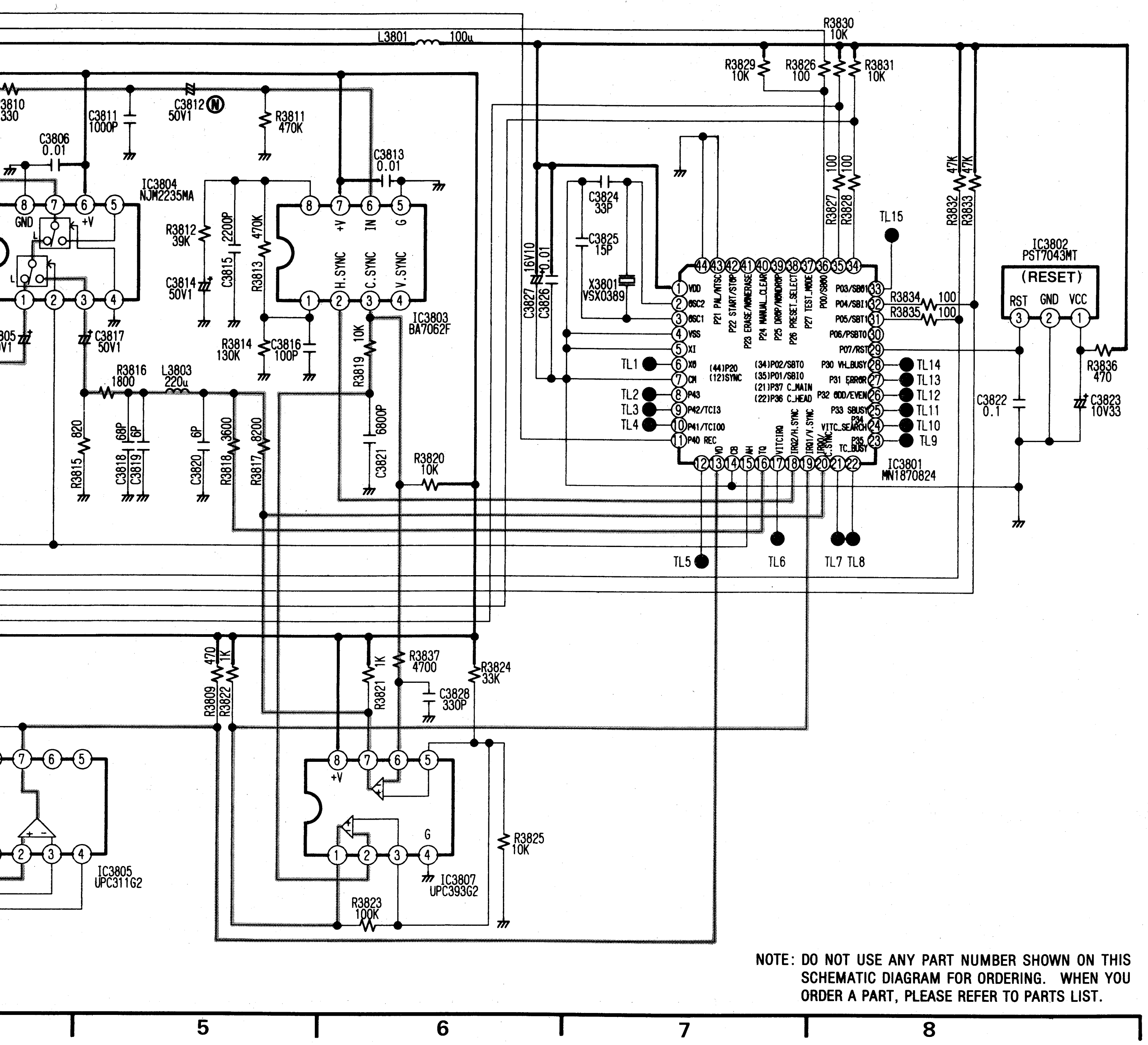

MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
IC3806 AN3916-LF
LPF
B.G REF
KEYED/PEAK DET
GCA
AMP
HSYNC SEP
SYNC CLAMP
DI CLAMP
C3804 0.01
C3829 3300P
C3833 6V100
C3830 50V3R3
C3832 25V4R7
Q3802 2SD601 (AMP)
C3801 16V10
C3803 16V10
R3839 12K
VR3801 20KB
R3840 220
R3838 18K
C3831 0.01
L3802 100u
C3802 6V47
R3810 330
C3806 0.01
C3811 1000P
C3812 50V1
R3811 470K
C3813 0.01
IC3804 NJM2235MA
GND
+V
R3812 39K
C3815 2200P
R3813 470K
C3814 50V1
H.SYNC
C.SYNC
V.SYNC
IN
IC3803 BA7062F
C3805 50V1
C3817 50V1
R3816 1800
L3803 220u
R3814 130K
C3816 100P
R3819 10K
C3821 6800P
R3815 820
C3818 68P
C3819 6P
C3820 6P
R3818 3600
R3817 8200
R3820 10K
L3801 100u
R3830 10K
R3829 10K
R3826 100
R3831 10K
R3827 100
R3828 100
R3832 47K
R3833 47K
TL15
C3824 33P
C3825 15P
X3801 VSX0389
C3827 16V10
C3826 0.01
R3834 100
R3835 100
IC3802 PST7043MT
(RESET)
RST GND VCC
R3836 470
C3822 0.1
C3823 10V33
TL1 TL2 TL3 TL4
TL14 TL13 TL12 TL11 TL10 TL9
IC3801 MN1870824
TL5 TL6 TL7 TL8
P3801
EE Y IN 1
GND 2
Y/C Y IN 3
GND 4
VV Y IN 5
GND 6
N SW5V 7
VITC CLOCK 8
VITC DATA 9
SS DATA 10
TIMER BUS CLK 11
TIMER BUS TLK 12
EE C MUTE 13
TO LUMINANCE & CHROMINANCE SECTION P3004 (Page: 4-17/C-8)
C3807 50V1
TL16
Q3801 2SD601 (AMP)
R3802 12K
R3804 10K
C3810 0.01
R3807 1K
R3808 330K
R3801 100K
D3801 MA165
C3808 16V10
R3803 10K
IC3805 UPC311G2
R3805 15K
R3806 2400
C3809 16V10
R3809 470
R3822 1K
R3821 1K
R3837 4700
R3824 33K
C3828 330P
R3825 10K
IC3807 UPC393G2
R3823 100K
G
E D C B A
1 2 3 4 5 6 7 8

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-20. VITC C.B.


R3826
R3829
K3802
K3801
C3827
C3826
C3824
X3801
C3825
W1
W2
L3801
W3
13
10
D C B A
1

MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE

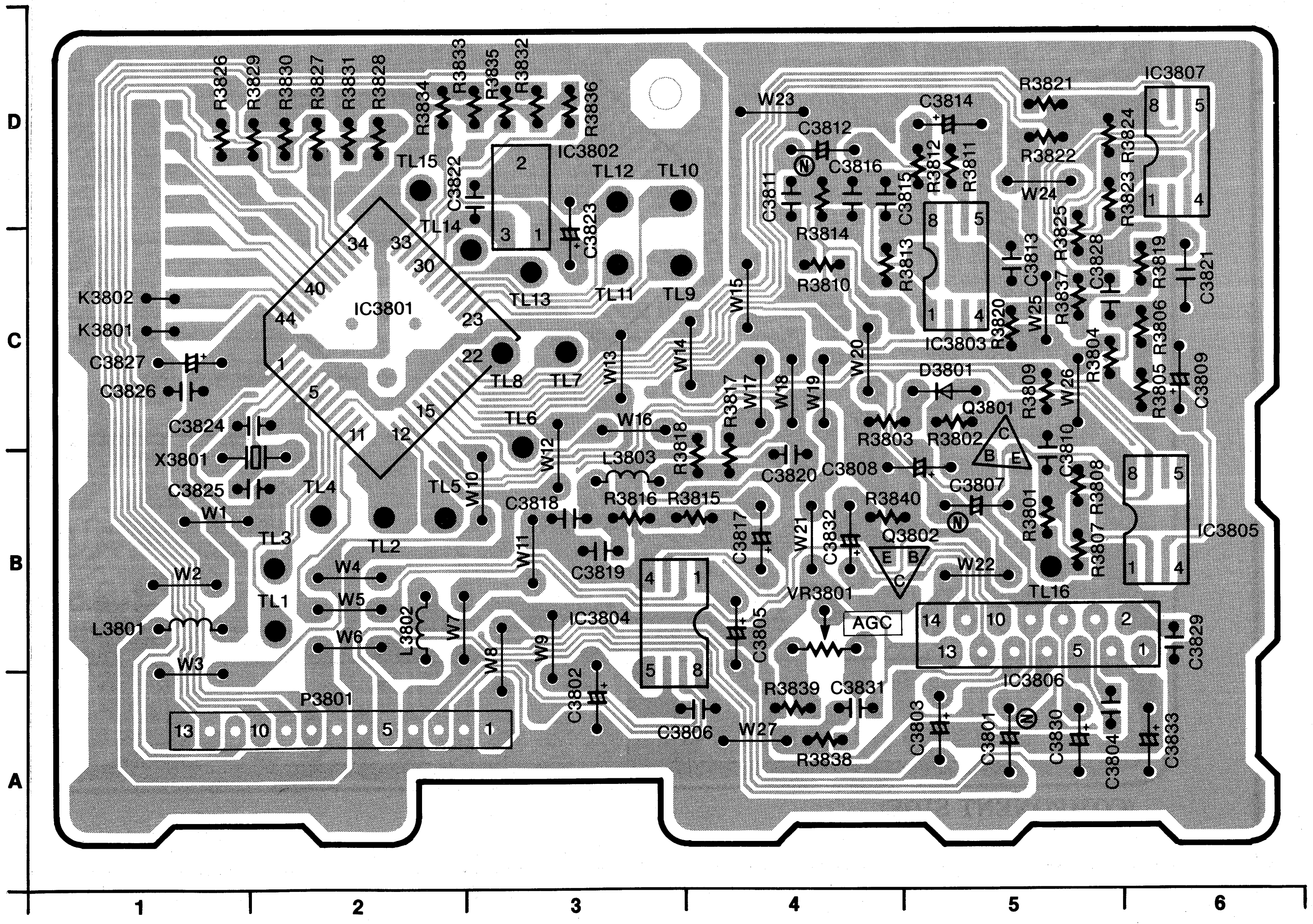

IC3801 MN1870824
IC3802 PST7043MT
(RESET)
IC3803 BA7062F
IC3804 NJM2235MA
IC3805 UPC3116Z
IC3807 UPC393G2
X3801 VSX0389
L3801 100u
L3803 220u
H.SYNC
C.SYNC
V.SYNC
RST GND VCC
TL1
TL2
TL3
TL4
TL5
TL6
TL7 TL8
TL9
TL10
TL11
TL12
TL13
TL14
TL15
5
6
7
8

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-20. VITC C.B.A. (VEP03A63A)

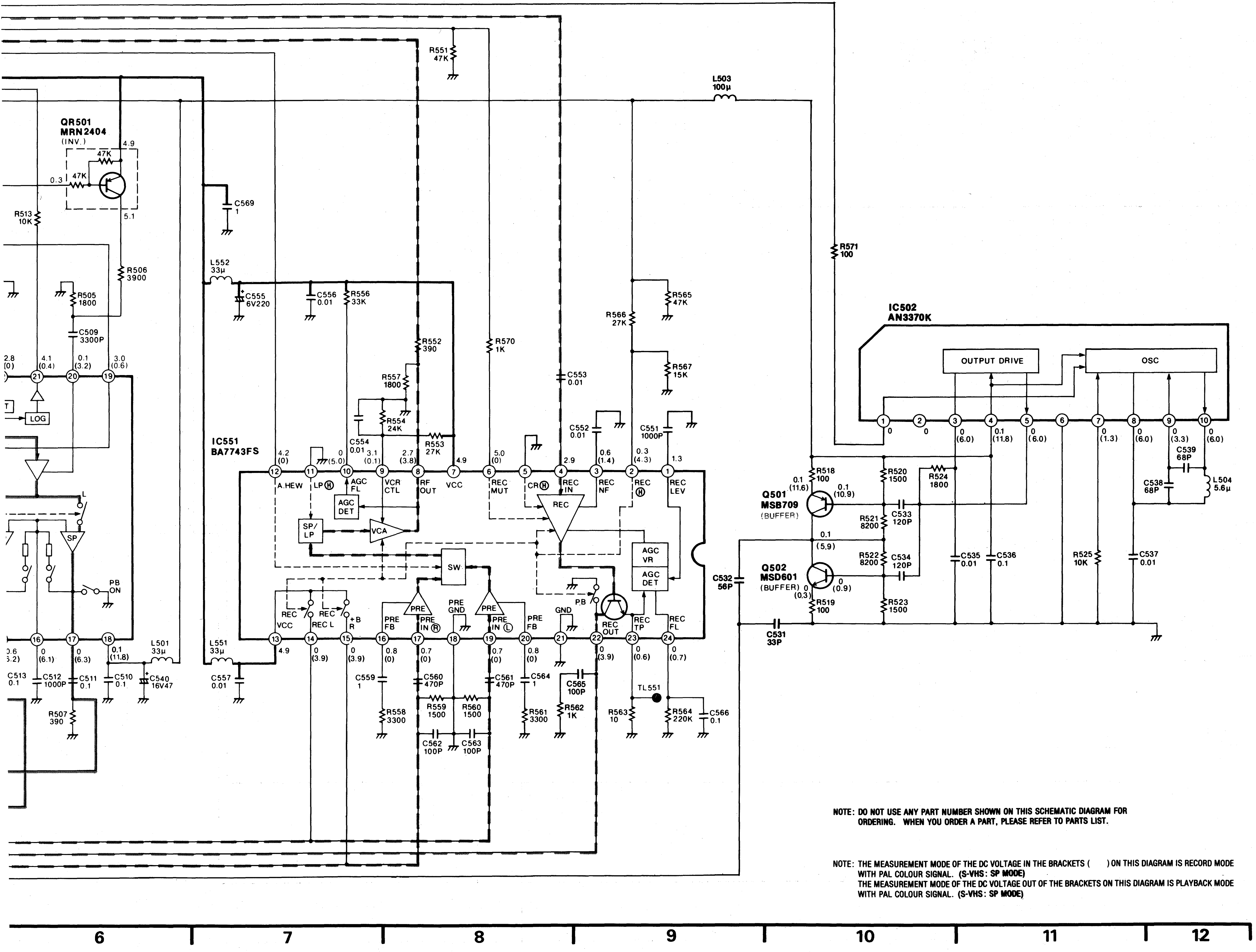
VITC C.B.A.	
Transistor	
Q3801	C-5
Q3802	B-4
Integrated Circuit	
IC3801	C-2
IC3802	D-3
IC3803	C-5
IC3804	B-3
IC3805	B-6
IC3806	B-5
IC3807	D-6
Adjustment	
VR3801	B-4
Connector	
P3801	A-2

ADDRESS INFORMATION


IC3801
IC3802
IC3803
IC3804
IC3805
IC3806
IC3807
P3801
VR3801
AGC
Q3801
Q3802
D3801
X3801
L3801
L3802
L3803
K3801
K3802
A
B
C
D
1
2
3
4
5
6

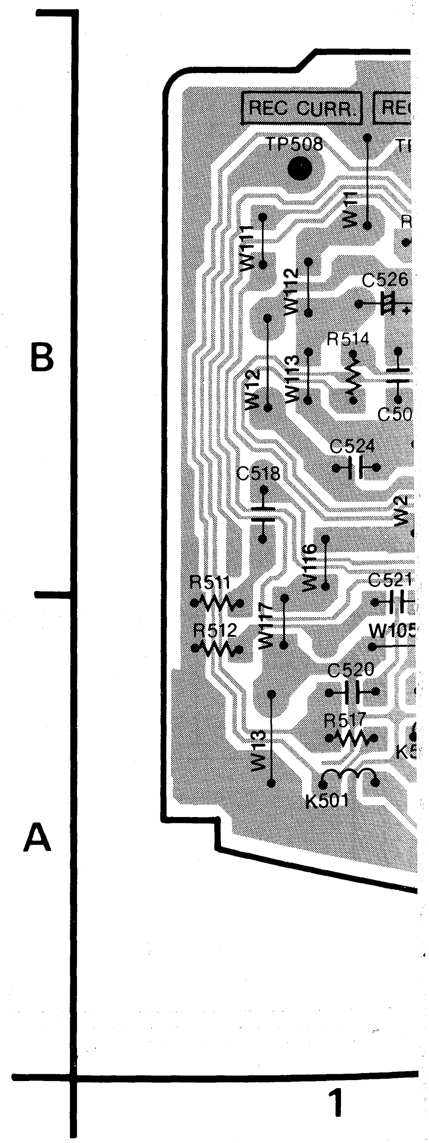
4-22. HEAD AMP C.

—— VIDEO MAIN SIGNAL PATH IN REC MODE
—— VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
- - - Hi-Fi AUDIO MAIN SIGNAL PATH IN REC MODE
- - - Hi-Fi AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

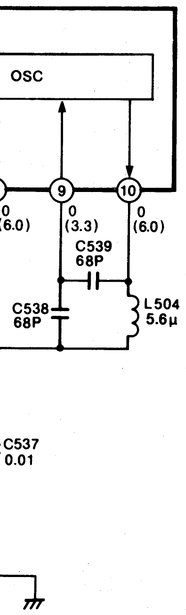

QR501
MRN2404
(INV.)
47K
47K
R513 10K
R506 3900
R505 1800
C509 3300P
LOG
SP
PB ON
R507 390
C513 0.1
C512 1000P
C511 0.1
C510 0.1
C540 16V47
L501 33μ
L551 33μ
C557 0.01
C569 1
L552 33μ
C555 6V220
C556 0.01
R556 33K
R551 47K
R552 390
R557 1800
R554 24K
C554 0.01
R553 27K
R570 1K
C553 0.01
C552 0.01
R566 27K
R565 47K
R567 15K
C551 1000P
L503 100μ
R571 100
IC551
BA7743FS
A.HEW
LP Ⓗ
AGC FL
VCR CTL
RF OUT
VCC
REC MUT
CR Ⓗ
REC IN
REC NF
REC Ⓗ
REC LEV
AGC DET
SP/LP
VCA
REC
SW
AGC VR
AGC DET
PRE
PRE GND
PRE
REC VCC
REC L
REC R
+B
PRE FB
PRE IN Ⓡ
PRE IN Ⓛ
PRE FB
GND
PB
REC OUT
REC TP
REC FL
C559 1
C560 470P
C561 470P
C564 1
C565 100P
R558 3300
R559 1500
R560 1500
R561 3300
R562 1K
C562 100P
C563 100P
R563 10
TL551
R564 220K
C566 0.1
IC502
AN3370K
OUTPUT DRIVE
OSC
Q501
MSB709
(BUFFER)
Q502
MSD601
(BUFFER)
R518 100
R519 100
R520 1500
R524 1800
R521 8200
C533 120P
R522 8200
C534 120P
R523 1500
C532 56P
C531 33P
C535 0.01
C536 0.1
R525 10K
C537 0.01
C538 68P
C539 68P
L504 5.6μ
6
7
8
9
10
11
12

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)


B
A
1
REC CURR.
TP508
W111
W11
C526
W112
R514
W12
W113
C524
C518
R511
R512
W116
W117
C521
W105
C520
R517
W13
K501

MODE



OSC
9
10
(6.0)
0
(3.3)
0
(6.0)
C539
68P
C538
68P
L504
5.6μ
C537
0.01

DIAGRAM IS RECORD MODE

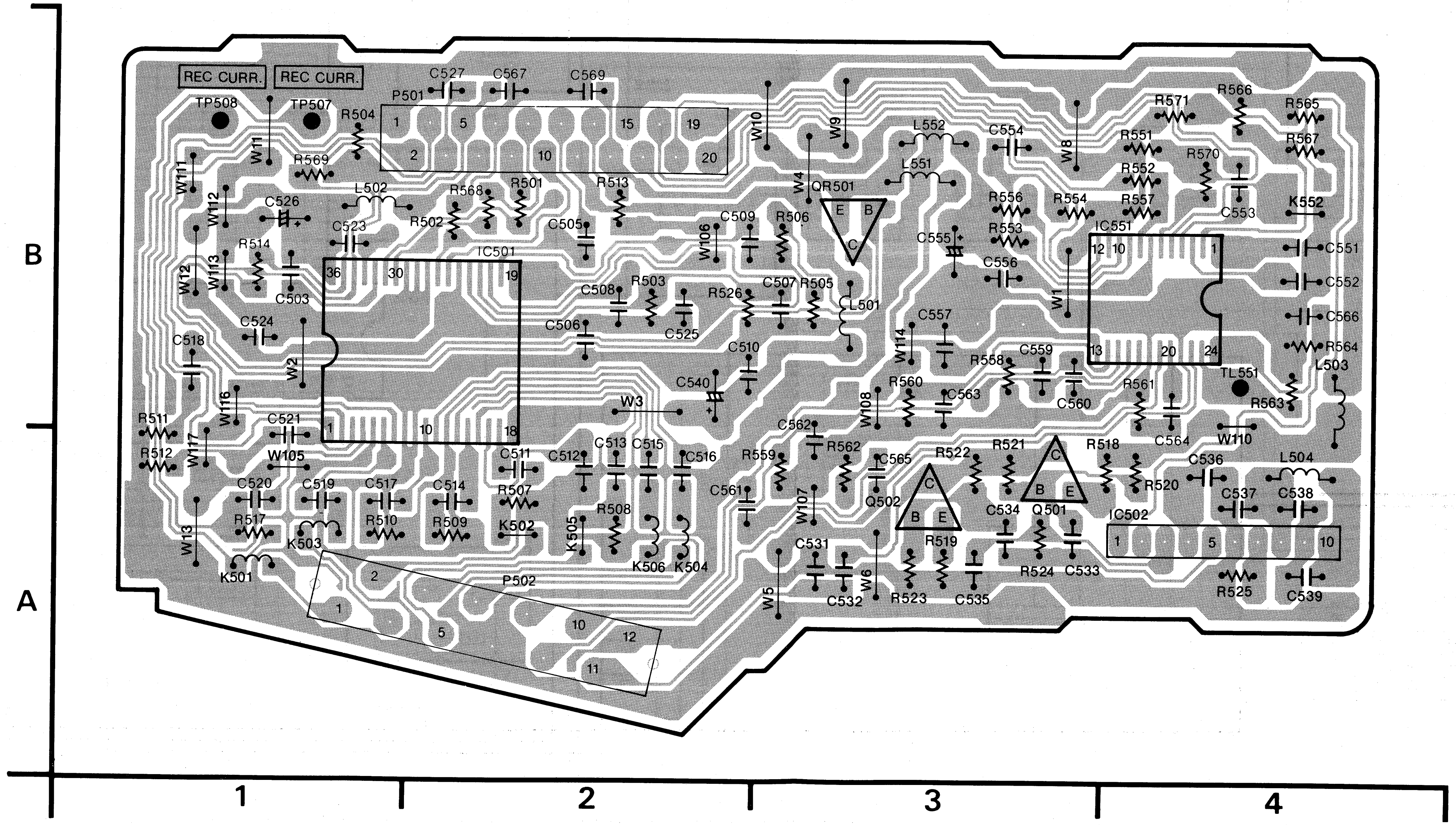
AGRAM IS PLAYBACK MODE

12

4-22. HEAD AMP C.B.A. (VEP05176G)

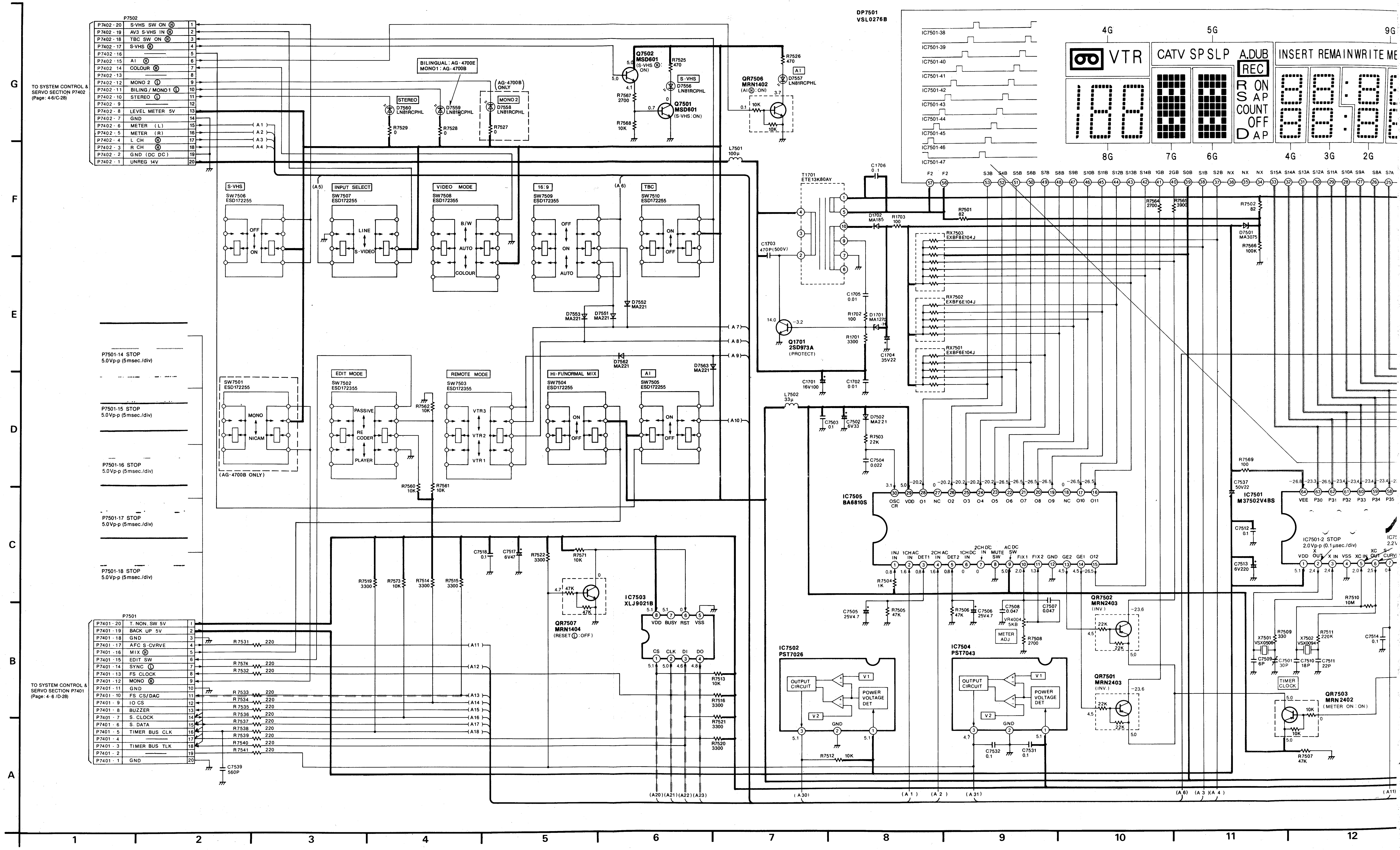
HEAD AMP C.B.A.	
Transistor	
Q501 Q502	A-3 A-3
Transistor & Resistor	
QR501	B-3
Integrated Circuit	
IC501 IC502 IC551	B-1 A-4 B-4
Test Point	
TL551 TP507 TP508	B-4 B-1 B-1
Connector	
P501 P502	B-2 A-1

ADDRESS INFORMATION

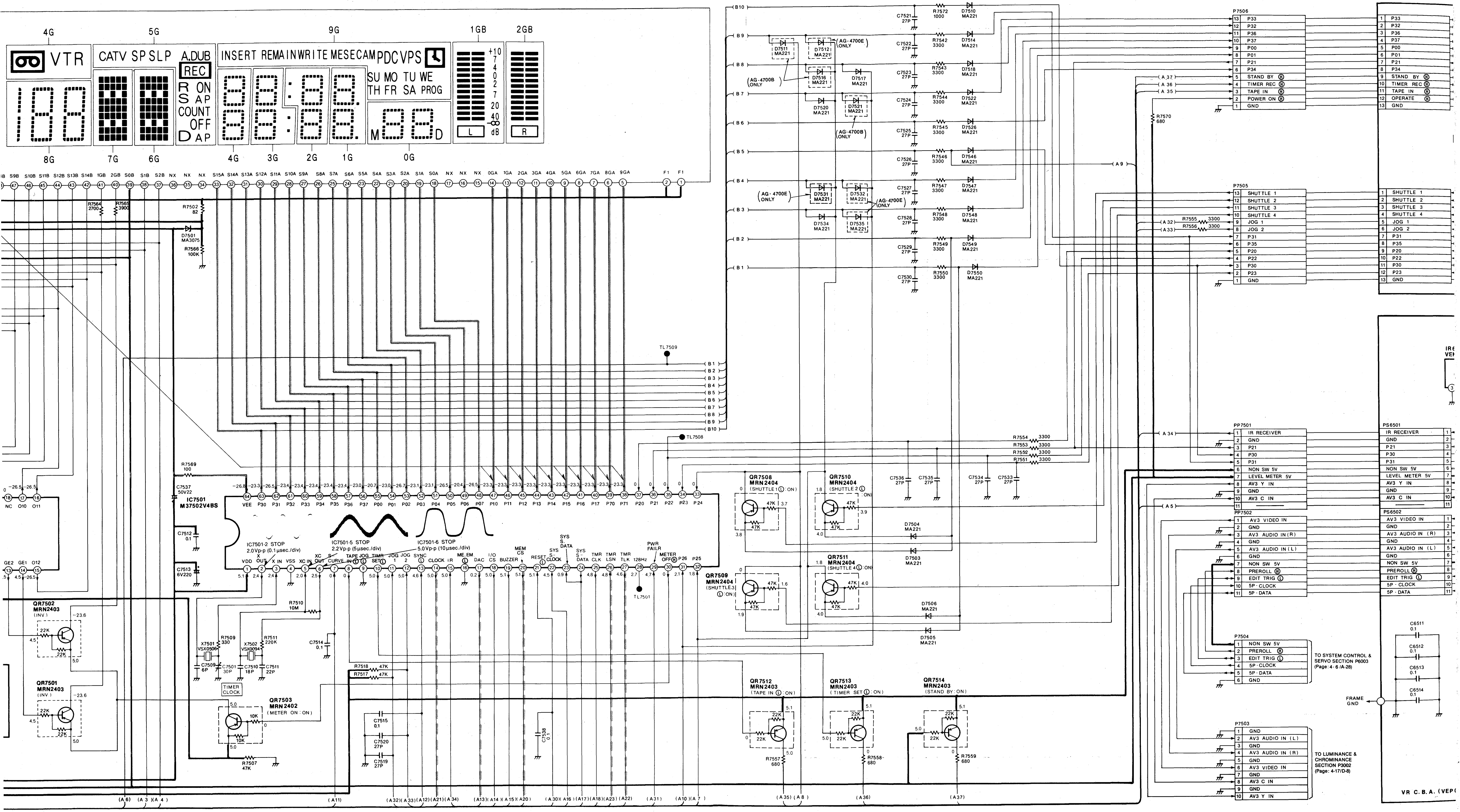


B
A
1
2
3
4
REC CURR.
REC CURR.
TP508
TP507
R504
P501
C527
C567
C569
1
5
15
19
2
10
20
W10
W9
L552
C554
W8
R571
R566
R565
R567
R551
R570
R552
W11
W111
R569
L502
R568
R501
R513
W4
QR501
E
B
C
L551
R556
R554
R557
C553
K552
W12
C526
R502
C505
C509
R506
C555
R553
IC551
12
10
1
C551
C552
C566
R564
L503
C523
IC501
W106
C556
W1
13
20
24
TL551
R563
W113
R514
36
30
19
C503
C508
R503
R526
C507
R505
L501
C557
W14
C524
C506
C525
C510
R558
C559
C560
R561
C518
W2
C540
R560
C563
W108
W116
W3
R511
C521
1
10
18
C562
R562
C565
R522
R521
R518
C564
W110
R512
W117
W105
C511
C512
C513
C515
C516
R559
Q502
Q501
C536
L504
R520
C520
C519
C517
C514
R507
C561
C534
IC502
C537
C538
R517
R510
R509
K502
K505
R508
W107
R519
1
5
10
W13
K503
K506
K504
C531
W6
R524
C533
K501
P502
2
1
5
10
12
11
W5
C532
R523
C535
R525
C539

4-23. TIMER & VR SCHEMATIC DIAGRAM


P7502
TO SYSTEM CONTROL & SERVO SECTION P7402 (Page: 4-6/C-28)
P7402-20 S-VHS SW ON Ⓗ
P7402-19 AV3 S-VHS IN Ⓗ
P7402-18 TBC SW ON Ⓗ
P7402-17 S-VHS Ⓗ
P7402-15 AI Ⓗ
P7402-14 COLOUR Ⓗ
P7402-12 MONO 2 Ⓛ
P7402-11 BILING / MONO 1 Ⓛ
P7402-10 STEREO Ⓛ
P7402-8 LEVEL METER 5V
P7402-7 GND
P7402-6 METER (L)
P7402-5 METER (R)
P7402-4 L CH Ⓗ
P7402-3 R CH Ⓗ
P7402-2 GND (DC DC)
P7402-1 UNREG 14V
BILINGUAL : AG-4700E
MONO1 : AG-4700B
(AG-4700B) ONLY
STEREO
MONO 2
S-VHS
AI
Q7502 MSD601
Q7501 MSD601
QR7506 MRN1402
L7501 100µ
T1701 ETE13K80AY
Q1701 2SD973A (PROTECT)
DP7501 VSL0276B
VTR
CATV SP SLP
A.DUB
REC
INSERT REMAIN WRITE
R ON
S AP
COUNT
OFF
D AP
SW7506 ESD172255
SW7507 ESD172255
INPUT SELECT
LINE
S-VIDEO
SW7508 ESD172355
VIDEO MODE
B/W
AUTO
COLOUR
16:9
SW7509 ESD172355
OFF
ON
TBC
SW7510 ESD172255
SW7501 ESD172255
MONO
NICAM
(AG-4700B ONLY)
EDIT MODE
SW7502 ESD172355
PASSIVE
RE CODER
PLAYER
REMOTE MODE
SW7503 ESD172355
VTR3
VTR2
VTR1
HI-FI/NORMAL MIX
SW7504 ESD172255
SW7505 ESD172255
P7501-14 STOP 5.0Vp-p (5msec./div)
P7501-15 STOP 5.0Vp-p (5msec./div)
P7501-16 STOP 5.0Vp-p (5msec./div)
P7501-17 STOP 5.0Vp-p (5msec./div)
P7501-18 STOP 5.0Vp-p (5msec./div)
IC7505 BA6810S
IC7501 M37502V4BS
IC7501-2 STOP 2.0Vp-p (0.1µsec./div)
QR7507 MRN1404 (RESET Ⓛ : OFF)
IC7503 XLJ9021B
IC7502 PST7026
IC7504 PST7043
OUTPUT CIRCUIT
POWER VOLTAGE DET
QR7502 MRN2403 (INV)
QR7501 MRN2403 (INV)
QR7503 MRN2402 (METER ON : ON)
TIMER CLOCK
METER ADJ
VR4004 5KB
P7501
TO SYSTEM CONTROL & SERVO SECTION P7401 (Page: 4-6/D-28)
P7401-20 T. NON. SW 5V
P7401-19 BACK UP 5V
P7401-18 GND
P7401-17 AFC S-CVRVE
P7401-16 MIX Ⓗ
P7401-15 EDIT SW
P7401-14 SYNC Ⓛ
P7401-13 FS CLOCK
P7401-12 MONO Ⓗ
P7401-11 GND
P7401-10 FS CS/DAC
P7401-9 IO CS
P7401-8 BUZZER
P7401-7 S. CLOCK
P7401-6 S. DATA
P7401-5 TIMER BUS CLK
P7401-3 TIMER BUS TLK
P7401-1 GND
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12

SEGMENT CO

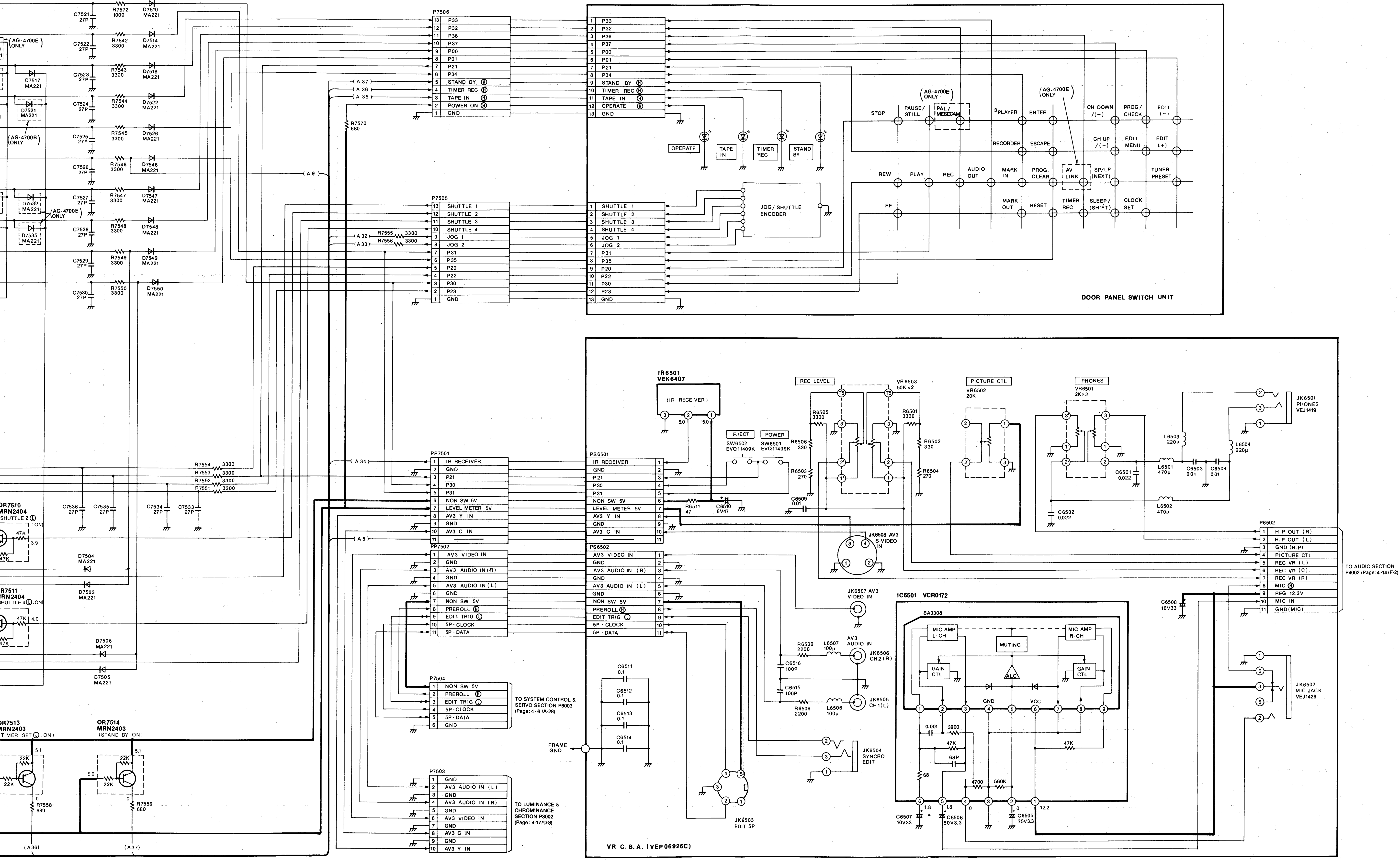


4G
5G
9G
1GB
2GB
VTR
CATV SP SLP A.DUB
REC
INSERT REMAIN WRITE MESECAM PDC VPS
SU MO TU WE
TH FR SA PROG
R ON
S AP
COUNT
OFF
D AP
+10
7
4
0
2
7
20
40
-∞
dB
L
R
8G
7G
6G
4G
3G
2G
1G
0G
F1
F1
R7564 2700
R7565 3900
R7502 82
D7501 MA3075
R7566 100K
R7569 100
C7537 50V22
IC7501 M37502V4BS
VEE P30 P31 P32 P33 P34 P35 P36 P37 P00 P01 P02 P03 P04 P05 P06 P07 P10 P11 P12 P13 P14 P15 P16 P17 P70 P71 P20 P21 P22 P23 P24
C7512 0.1
C7513 6V220
IC7501-2 STOP 2.0Vp-p (0.1μsec./div)
IC7501-5 STOP 2.2Vp-p (5μsec./div)
IC7501-6 STOP 5.0Vp-p (10μsec./div)
VDD OUT X IN VSS XC IN XC OUT S CURVE TAPE IN JOG TIMR SET JOG 1 JOG 2 SYNC CLOCK IR ME.EM DAC I/O CS BUZZER MEM CS RESET SYS S CLOCK SYS S DATA SYS S DATA TMR CLK TMR LSN TMR TLK 128Hz PWR FAILR METER OFF P26 P25
TL7509
TL7508
TL7501
B1 B2 B3 B4 B5 B6 B7 B8 B9 B10
NC O10 O11
GE2 GE1 O12
QR7502 MRN2403 (INV.)
QR7501 MRN2403 (INV.)
R7510 10M
R7509 330
R7511 220K
X7501 VSX0506
X7502 VSX0094
C7509 6P
C7501 30P
C7510 18P
C7511 22P
C7514 0.1
TIMER CLOCK
QR7503 MRN2402 (METER ON : ON)
R7507 47K
R7518 47K
R7517 47K
C7515 0.1
C7520 27P
C7519 27P
C7538 0.1
QR7508 MRN2404 (SHUTTLE 1 Ⓛ : ON)
QR7510 MRN2404 (SHUTTLE 2 Ⓛ : ON)
QR7509 MRN2404 (SHUTTLE 3 Ⓛ : ON)
QR7511 MRN2404 (SHUTTLE 4 Ⓛ : ON)
QR7512 MRN2403 (TAPE IN Ⓛ : ON)
QR7513 MRN2403 (TIMER SET Ⓛ : ON)
QR7514 MRN2403 (STAND BY : ON)
R7557 680
R7558 680
R7559 680
D7503 MA221
D7504 MA221
D7505 MA221
D7506 MA221
C7536 27P
C7535 27P
C7534 27P
C7533 27P
R7554 3300
R7553 3300
R7552 3300
R7551 3300
C7521 27P R7572 1000 D7510 MA221
C7522 27P R7542 3300 D7514 MA221
C7523 27P R7543 3300 D7518 MA221
C7524 27P R7544 3300 D7522 MA221
C7525 27P R7545 3300 D7526 MA221
C7526 27P R7546 3300 D7546 MA221
C7527 27P R7547 3300 D7547 MA221
C7528 27P R7548 3300 D7548 MA221
C7529 27P R7549 3300 D7549 MA221
C7530 27P R7550 3300 D7550 MA221
D7511 MA221
D7512 MA221
D7516 MA221
D7517 MA221
D7520 MA221
D7521 MA221
D7531 MA221
D7532 MA221
D7534 MA221
D7535 MA221
(AG-4700E) ONLY
(AG-4700B) ONLY
R7570 680
R7555 3300
R7556 3300
P7506
13 P33
12 P32
11 P36
10 P37
9 P00
8 P01
7 P21
6 P34
5 STAND BY Ⓡ
4 TIMER REC Ⓡ
3 TAPE IN Ⓡ
2 POWER ON Ⓡ
1 GND
1 P33
2 P32
3 P36
4 P37
5 P00
6 P01
7 P21
8 P34
9 STAND BY Ⓡ
10 TIMER REC Ⓡ
11 TAPE IN Ⓡ
12 OPERATE Ⓡ
13 GND
P7505
13 SHUTTLE 1
12 SHUTTLE 2
11 SHUTTLE 3
10 SHUTTLE 4
9 JOG 1
8 JOG 2
7 P31
6 P35
5 P20
4 P22
3 P30
2 P23
1 GND
1 SHUTTLE 1
2 SHUTTLE 2
3 SHUTTLE 3
4 SHUTTLE 4
5 JOG 1
6 JOG 2
7 P31
8 P35
9 P20
10 P22
11 P30
12 P23
13 GND
PP7501
1 IR RECEIVER
2 GND
3 P21
4 P30
5 P31
6 NON SW 5V
7 LEVEL METER 5V
8 AV3 Y IN
9 GND
10 AV3 C IN
11
PS6501
IR RECEIVER 1
GND 2
P21 3
P30 4
P31 5
NON SW 5V 6
LEVEL METER 5V 7
AV3 Y IN 8
GND 9
AV3 C IN 10
11
PP7502
1 AV3 VIDEO IN
2 GND
3 AV3 AUDIO IN (R)
4 GND
5 AV3 AUDIO IN (L)
6 GND
7 NON SW 5V
8 PREROLL Ⓡ
9 EDIT TRIG Ⓛ
10 5P CLOCK
11 5P DATA
PS6502
AV3 VIDEO IN 1
GND 2
AV3 AUDIO IN (R) 3
GND 4
AV3 AUDIO IN (L) 5
GND 6
NON SW 5V 7
PREROLL Ⓡ 8
EDIT TRIG Ⓛ 9
5P CLOCK 10
5P DATA 11
P7504
1 NON SW 5V
2 PREROLL Ⓡ
3 EDIT TRIG Ⓛ
4 5P CLOCK
5 5P DATA
6 GND
TO SYSTEM CONTROL & SERVO SECTION P6003 (Page: 4-6 /A-28)
P7503
1 GND
2 AV3 AUDIO IN (L)
3 GND
4 AV3 AUDIO IN (R)
5 GND
6 AV3 VIDEO IN
7 GND
8 AV3 C IN
9 GND
10 AV3 Y IN
TO LUMINANCE & CHROMINANCE SECTION P3002 (Page: 4-17/D-8)
C6511 0.1
C6512 0.1
C6513 0.1
C6514 0.1
FRAME GND
IR
VE
VR C.B.A. (VEP
(A 6) (A 3) (A 4) (A11) (A32) (A33) (A12) (A21) (A34) (A13) (A14) (A15) (A20) (A30) (A16) (A17) (A18) (A23) (A22) (A31) (A10) (A 7) (A35) (A 8) (A36) (A37)
(A 37) (A 36) (A 35) (A 9) (A32) (A33) (A 34) (A 5)

NOTE: THE MEASUREMEN

10 11 12 13 14 15 16 17 18 19 20 21 2

SEGMENT CONTROL SIGNAL — GRID CONTROL SIGNAL — TUNE CONTROL SIGNAL



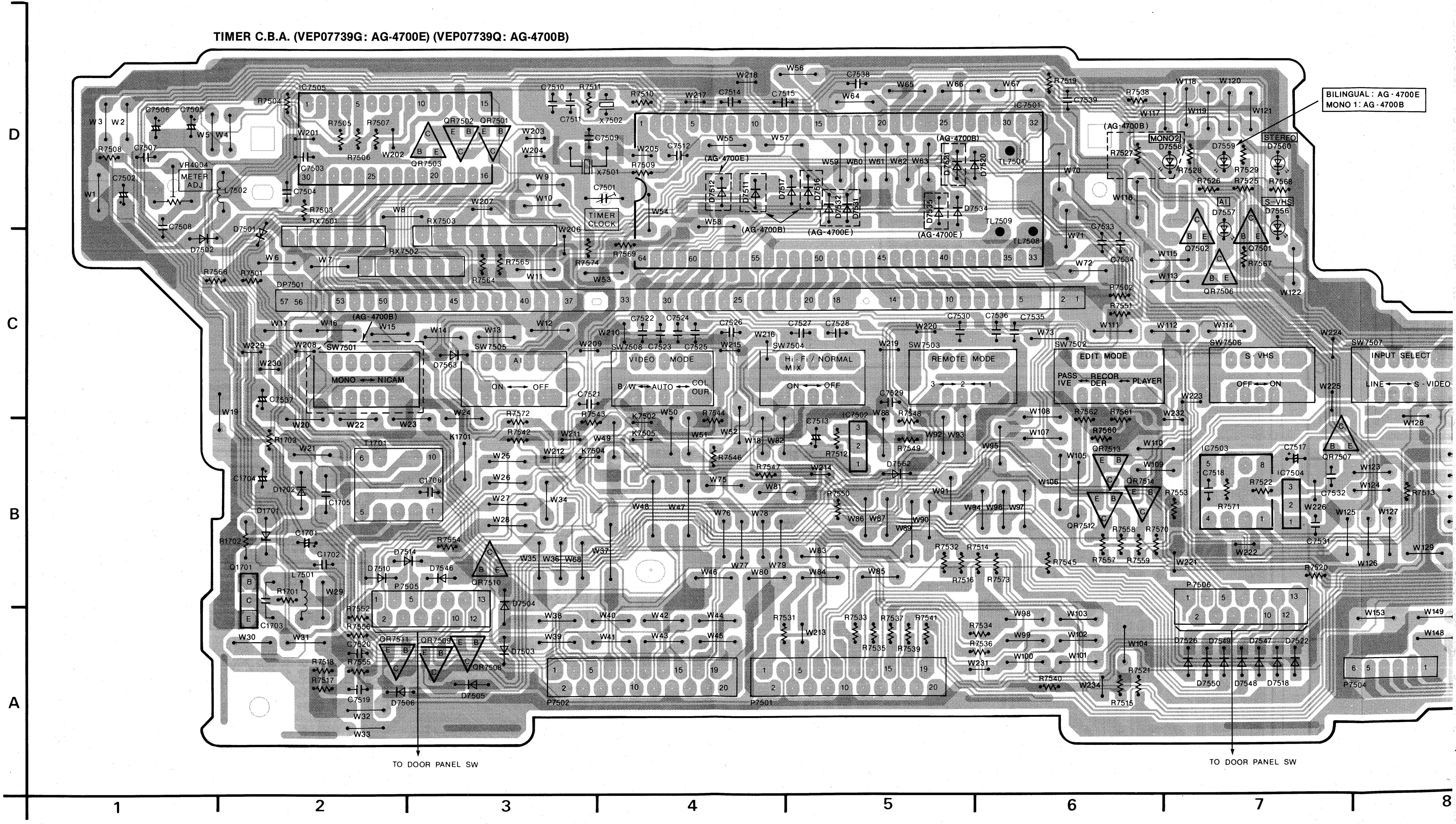
P7506
P33
P32
P36
P37
P00
P01
P21
P34
STAND BY Ⓗ
TIMER REC Ⓗ
TAPE IN Ⓗ
POWER ON Ⓗ
OPERATE Ⓗ
GND
P7505
SHUTTLE 1
SHUTTLE 2
SHUTTLE 3
SHUTTLE 4
JOG 1
JOG 2
P31
P35
P20
P22
P30
P23
JOG/SHUTTLE ENCODER
OPERATE
TAPE IN
TIMER REC
STAND BY
STOP
PAUSE/STILL
(AG-4700E ONLY)
PAL/MESECAM
³PLAYER
ENTER
CH DOWN /(−)
PROG/CHECK
EDIT (−)
RECORDER
ESCAPE
CH UP /(+)
EDIT MENU
EDIT (+)
REW
PLAY
REC
AUDIO OUT
MARK IN
PROG. CLEAR
AV LINK
SP/LP (NEXT)
TUNER PRESET
FF
MARK OUT
RESET
TIMER REC
SLEEP/(SHIFT)
CLOCK SET
DOOR PANEL SWITCH UNIT
C7521 27P
R7572 1000
D7510 MA221
D7517 MA221
D7521 MA221
(AG-4700B) ONLY
D7532 MA221
(AG-4700E) ONLY
D7535 MA221
R7570 680
R7555 3300
R7556 3300
R7554 3300
R7553 3300
R7552 3300
R7551 3300
QR7510 MRN2404 (SHUTTLE 2 Ⓛ : ON)
QR7511 MRN2404 (SHUTTLE 4 Ⓛ : ON)
QR7513 MRN2403 (TIMER SET Ⓛ : ON)
QR7514 MRN2403 (STAND BY : ON)
R7558 680
R7559 680
D7504 MA221
D7503 MA221
D7506 MA221
D7505 MA221
(A36)
(A37)
PP7501
IR RECEIVER
NON SW 5V
LEVEL METER 5V
AV3 Y IN
AV3 C IN
PP7502
AV3 VIDEO IN
AV3 AUDIO IN (R)
AV3 AUDIO IN (L)
PREROLL Ⓗ
EDIT TRIG Ⓛ
5P·CLOCK
5P·DATA
P7504
TO SYSTEM CONTROL & SERVO SECTION P6003 (Page: 4-6 /A-28)
P7503
TO LUMINANCE & CHROMINANCE SECTION P3002 (Page: 4-17/D-8)
FRAME GND
PS6501
PS6502
IR6501 VEK6407
(IR RECEIVER)
EJECT
POWER
SW6502 EVQ11409K
SW6501 EVQ11409K
REC LEVEL
VR6503 50K×2
PICTURE CTL
VR6502 20K
PHONES
VR6501 2K×2
JK6501 PHONES VEJ1419
JK6508 AV3 S-VIDEO IN
JK6507 AV3 VIDEO IN
AV3 AUDIO IN
JK6506 CH2 (R)
JK6505 CH1 (L)
JK6504 SYNCRO EDIT
JK6503 EDIT 5P
IC6501 VCR0172
BA3308
MIC AMP L-CH
MIC AMP R-CH
MUTING
GAIN CTL
ALC
GND
VCC
P6502
H.P OUT (R)
H.P OUT (L)
GND (H.P)
PICTURE CTL
REC VR (L)
REC VR (C)
REC VR (R)
MIC Ⓗ
REG 12.3V
MIC IN
GND(MIC)
TO AUDIO SECTION P4002 (Page: 4-14/F-2)
JK6502 MIC JACK VEJ1429
VR C.B.A. (VEP06926C)

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE. (S-VHS: SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

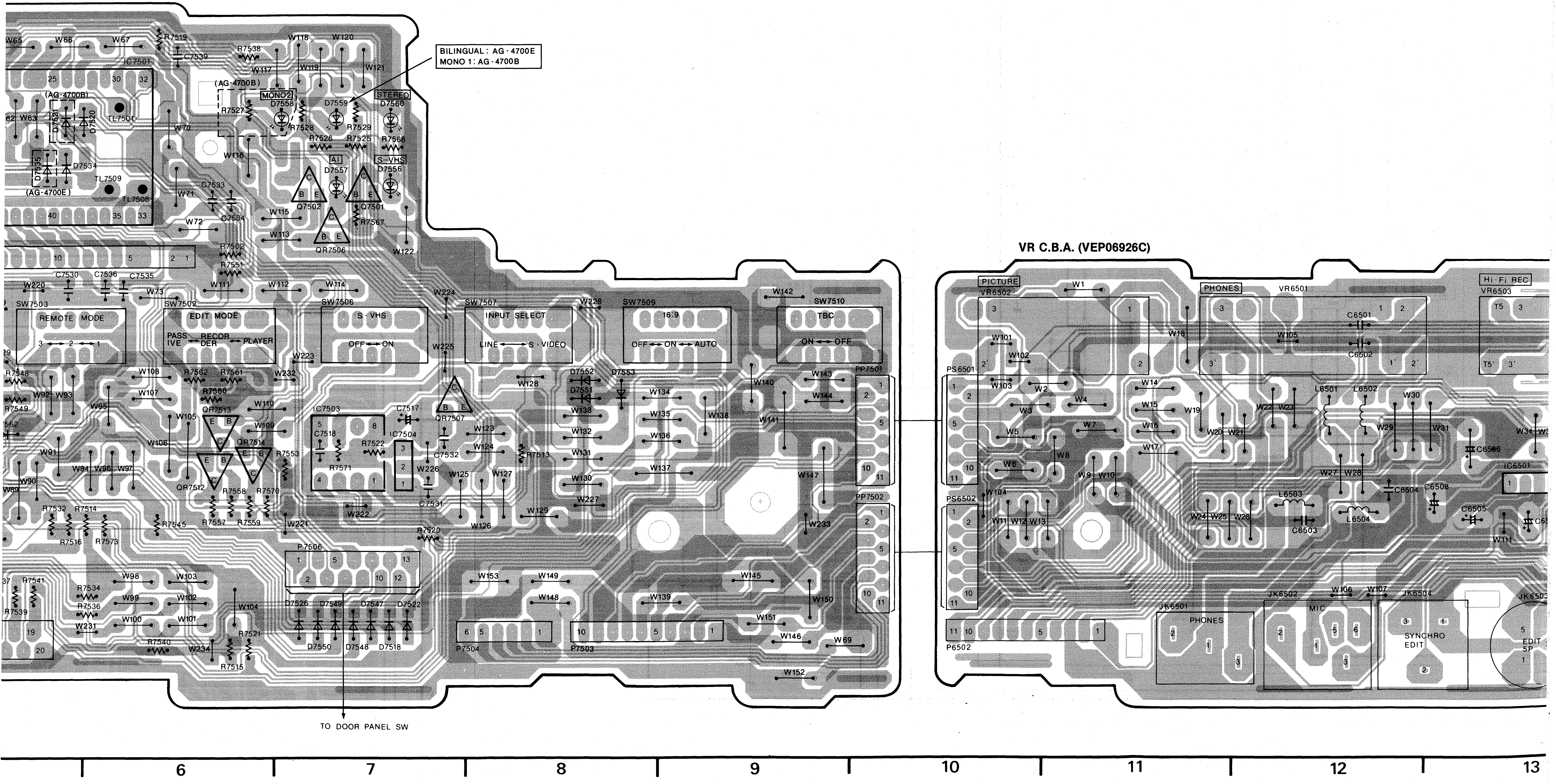
17	18	19	20	21	22	23	24	25	26	27	28

4-24. TIMER C.B.A. (VEP07739G: AG-4700E) (VEP07739Q: AG-4700B) & VR C.B.A. (VEP06926C)

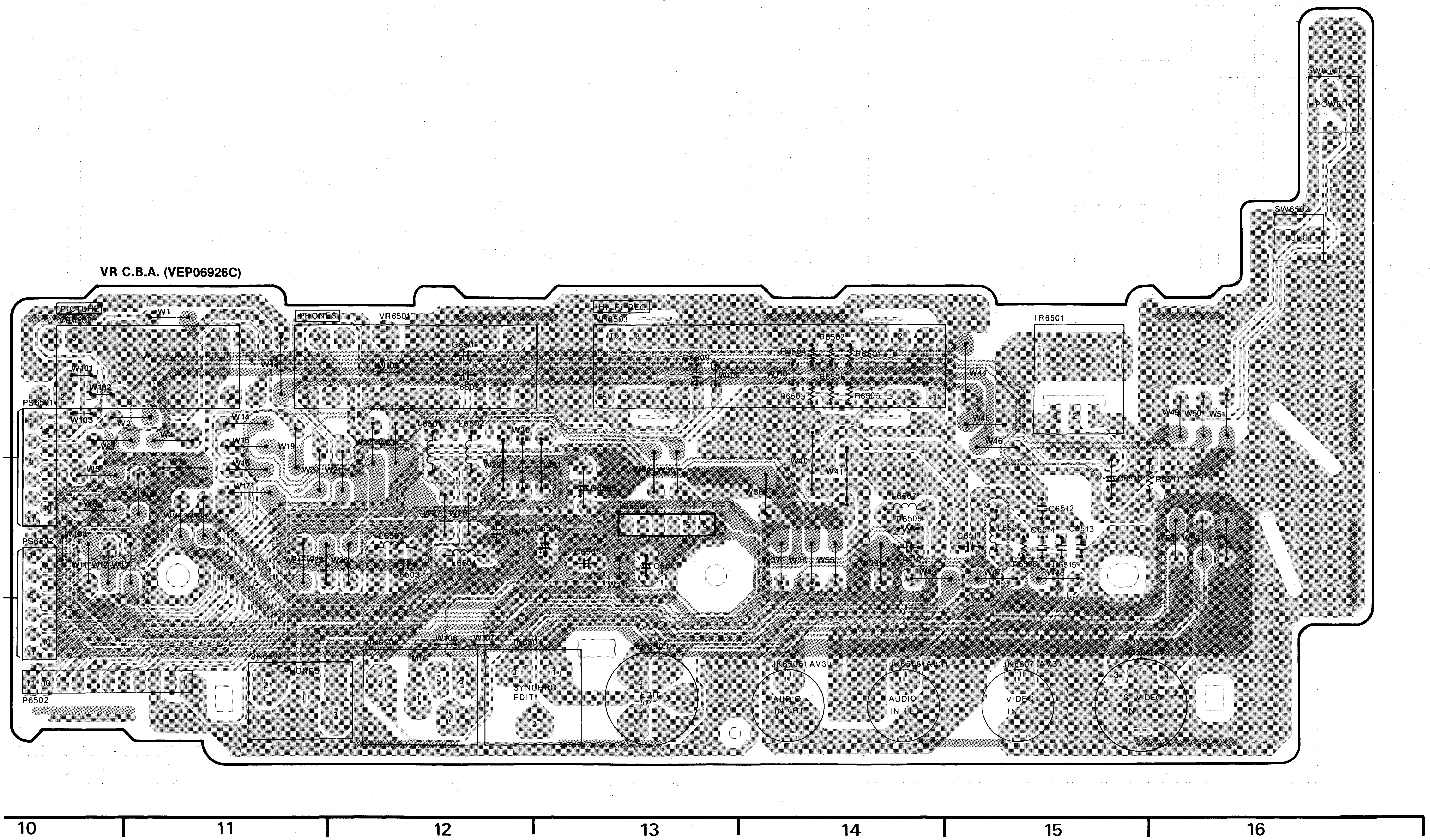


TIMER C.B.A. (VEP07739G: AG-4700E) (VEP07739Q: AG-4700B)

BILINGUAL : AG-4700E
MONO 1 : AG-4700B
D
C
B
A
1
2
3
4
5
6
7
8
IC7505
IC7501
IC7502
IC7503
IC7504
DP7501
RX7501
RX7502
RX7503
METER ADJ
VR4004
TIMER CLOCK
X7501
X7502
T1701
K1701
Q1701
Q7501
Q7502
QR7501
QR7502
QR7503
QR7506
QR7507
QR7508
QR7509
QR7510
QR7511
QR7512
QR7513
QR7514
TL7501
TL7508
TL7509
(AG-4700B)
(AG-4700E)
MONO2
STEREO
A1
S-VHS
SW7501
MONO ⟷ NICAM
SW7505
AI
ON ⟷ OFF
SW7508
VIDEO MODE
B/W ⟷ AUTO ⟷ COLOUR
SW7504
Hi-Fi / NORMAL MIX
ON ⟷ OFF
SW7503
REMOTE MODE
3 ⟷ 2 ⟷ 1
SW7502
EDIT MODE
PASSIVE ⟷ RECORDER ⟷ PLAYER
SW7506
S-VHS
OFF ⟷ ON
SW7507
INPUT SELECT
LINE ⟷ S-VIDEO
P7501
P7502
P7504
P7505
P7506
TO DOOR PANEL SW
TO DOOR PANEL SW


BILINGUAL : AG-4700E
MONO 1: AG-4700B
(AG-4700B)
(AG-4700E)
MONO2
STEREO
AI
S-VHS
IC7501
TL7501
TL7508
TL7509
Q7501
Q7502
QR7506
SW7503
REMOTE MODE
3 ← 2 → 1
SW7502
EDIT MODE
PASSIVE
RECORDER
PLAYER
SW7506
S-VHS
OFF ↔ ON
SW7507
INPUT SELECT
LINE ↔ S-VIDEO
SW7509
16:9
OFF ↔ ON ↔ AUTO
SW7510
TBC
ON ↔ OFF
IC7503
IC7504
QR7507
QR7512
QR7513
QR7514
P7506
P7504
P7503
PP7501
PP7502
TO DOOR PANEL SW
VR C.B.A. (VEP06926C)
PICTURE
VR6502
PHONES
VR6501
Hi-Fi REC
VR6503
PS6501
PS6502
P6502
L6501
L6502
L6503
L6504
C6501
C6502
C6503
C6504
C6505
C6506
C6508
IC6501
JK6501
PHONES
JK6502
MIC
JK6504
SYNCHRO EDIT
JK6503
EDIT 5P
6
7
8
9
10
11
12
13

VR C.B.A. (VEP06926C)


PICTURE
VR6502
W1
PHONES
VR6501
Hi-Fi REC
VR6503
IR6501
SW6501
POWER
SW6502
EJECT
PS6501
PS6502
P6502
W101
W102
W103
W104
W105
W106
W107
W109
W110
W111
W2
W3
W4
W5
W6
W7
W8
W9
W10
W11
W12
W13
W14
W15
W16
W17
W18
W19
W20
W21
W22
W23
W24
W25
W26
W27
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W29
W30
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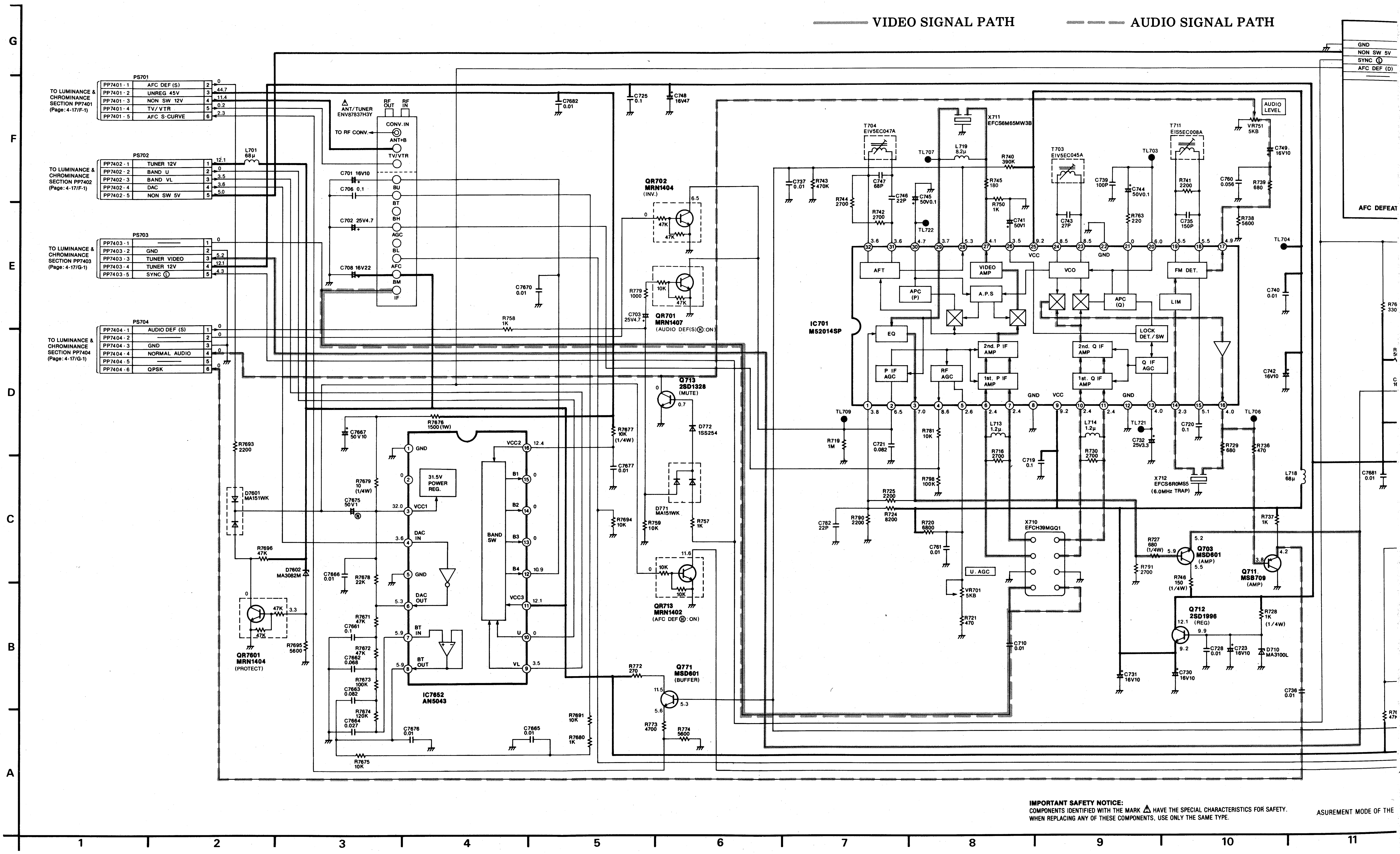
W34
W35
W36
W37
W38
W39
W40
W41
W43
W44
W45
W46
W47
W48
W49
W50
W51
W52
W53
W54
W55
C6501
C6502
C6503
C6504
C6505
C6506
C6507
C6508
C6509
C6510
C6511
C6512
C6513
C6514
C6515
C6516
L6501
L6502
L6503
L6504
L6506
L6507
R6501
R6502
R6503
R6504
R6505
R6506
R6508
R6509
R6511
IC6501
T5
T5'
JK6501
PHONES
JK6502
MIC
JK6504
SYNCHRO
EDIT
JK6503
EDIT
5P
JK6506(AV3)
AUDIO
IN (R)
JK6505(AV3)
AUDIO
IN (L)
JK6507(AV3)
VIDEO
IN
JK6508(AV3)
S-VIDEO
IN
10
11
12
13
14
15
16

TIMER C.B.A. & VR C.B.A.	
Transistor	
Q1701	B-2
Q7501	A-7
Q7502	A-7
Transistor & Resistor	
QR7501	D-3
QR7502	D-3
QR7503	D-3
QR7506	C-7
QR7507	B-7
QR7508	A-3
QR7509	A-3
QR7510	B-3
QR7511	A-2
QR7512	B-6
QR7513	B-6
QR7514	B-6
Integrated Circuit	
IC6501	B-13
IC7501	D-6
IC7502	B-5
IC7503	B-7
IC7504	B-7
IC7505	D-2
Adjustment	
C7501	D-4
VR4004	D-1
VR6501	C-12
VR6502	C-10
VR6503	C-13
Connector	
P6502	A-10
P7501	A-4
P7502	A-4
P7503	A-8
P7504	A-8
P7505	B-2
P7506	B-7
PP7501	B-10
PP7502	B-10
PS6501	B-10
PS6502	B-10

ADDRESS INFORMATION

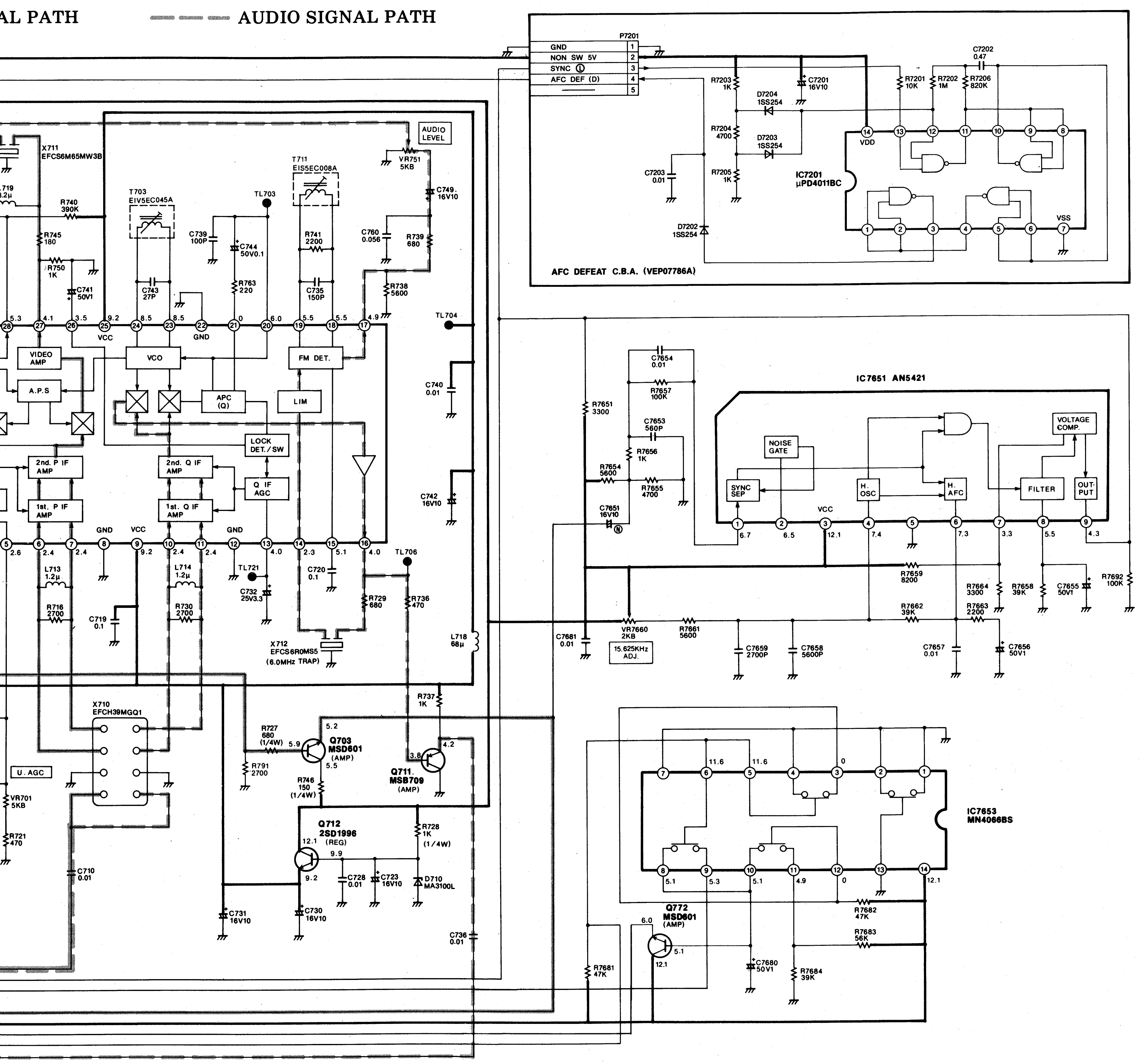
4-25. TV DEMODULATOR PACK SCHEMATIC DIAGRAM (AG-4700B)


VIDEO SIGNAL PATH
AUDIO SIGNAL PATH
PS701
TO LUMINANCE & CHROMINANCE SECTION PP7401 (Page: 4-17/F-1)
PP7401-1 AFC DEF (S)
PP7401-2 UNREG 45V
PP7401-3 NON SW 12V
PP7401-4 TV/VTR
PP7401-5 AFC S-CURVE
PS702
TO LUMINANCE & CHROMINANCE SECTION PP7402 (Page: 4-17/F-1)
PP7402-1 TUNER 12V
PP7402-2 BAND U
PP7402-3 BAND VL
PP7402-4 DAC
PP7402-5 NON SW 5V
PS703
TO LUMINANCE & CHROMINANCE SECTION PP7403 (Page: 4-17/G-1)
PP7403-1
PP7403-2 GND
PP7403-3 TUNER VIDEO
PP7403-4 TUNER 12V
PP7403-5 SYNC Ⓛ
PS704
TO LUMINANCE & CHROMINANCE SECTION PP7404 (Page: 4-17/G-1)
PP7404-1 AUDIO DEF (S)
PP7404-2
PP7404-3 GND
PP7404-4 NORMAL AUDIO
PP7404-5
PP7404-6 QPSK
ANT/TUNER ENV87837H3Y
RF OUT
RF IN
CONV.IN
TO RF CONV.
ANT+B
TV/VTR
BU
BT
BH
AGC
BL
AFC
BM
IF
L701 68μ
C701 16V10
C706 0.1
C702 25V4.7
C708 16V22
C7682 0.01
C725 0.1
C748 16V47
C7670 0.01
R758 1K
QR702 MRN1404 (INV.)
QR701 MRN1407 (AUDIO DEF(S)Ⓗ:ON)
R779 1000
C703 25V4.7
Q713 2SD1328 (MUTE)
D772 1SS254
D771 MA151WK
R759 10K
R757 1K
QR713 MRN1402 (AFC DEF Ⓗ:ON)
Q771 MSD601 (BUFFER)
R772 270
R773 4700
R774 5600
R7676 1500 (1W)
C7667 50V10
R7679 10 (1/4W)
C7675 50V1
C7666 0.01
R7678 22K
R7671 47K
C7661 0.1
R7672 47K
C7662 0.068
R7673 100K
C7663 0.082
R7674 120K
C7664 0.027
C7676 0.01
R7675 10K
C7665 0.01
R7691 10K
R7680 1K
R7677 10K (1/4W)
C7677 0.01
R7694 10K
IC7652 AN5043
GND
31.5V POWER REG.
VCC1
DAC IN
DAC OUT
BT IN
BT OUT
VCC2
B1
B2
B3
B4
VCC3
U
VL
BAND SW
R7693 2200
D7601 MA151WK
R7696 47K
D7602 MA3082M
QR7601 MRN1404 (PROTECT)
R7695 5600
X711 EFCS6M65MW3B
T704 EIV5EC047A
L719 8.2μ
TL707
C747 68P
C746 22P
C745 50V0.1
C737 0.01
R743 470K
R744 2700
R742 2700
TL722
R745 180
R750 1K
R740 390K
C741 50V1
T703 EIV5EC045A
C743 27P
C739 100P
C744 50V0.1
R763 220
TL703
T711 EIS5EC008A
R741 2200
C735 150P
C760 0.056
R739 680
R738 5600
AUDIO LEVEL
VR751 5KB
C749 16V10
TL704
IC701 M52014SP
AFT
VIDEO AMP
APC (P)
A.P.S
VCO
APC (Q)
FM DET.
LIM
EQ
LOCK DET./SW
2nd. P IF AMP
2nd. Q IF AMP
Q IF AGC
P IF AGC
RF AGC
1st. P IF AMP
1st. Q IF AMP
VCC
GND
C740 0.01
C742 16V10
TL709
R719 1M
C721 0.082
R781 10K
R798 100K
L713 1.2μ
R716 2700
C719 0.1
L714 1.2μ
R730 2700
TL721
C732 25V3.3
C720 0.1
R729 680
R736 470
TL706
X712 EFCS6R0MS5 (6.0MHz TRAP)
L718 68μ
C7681 0.01
R725 2200
R724 8200
C782 22P
R790 2200
R720 6800
C761 0.01
X710 EFCH39MGQ1
U. AGC
VR701 5KB
R721 470
C710 0.01
C731 16V10
R727 680 (1/4W)
R791 2700
Q703 MSD601 (AMP)
R746 150 (1/4W)
R737 1K
Q711 MSB709 (AMP)
Q712 2SD1996 (REG)
R728 1K (1/4W)
C728 0.01
C723 16V10
D710 MA3100L
C730 16V10
C736 0.01
GND
NON SW 5V
SYNC Ⓛ
AFC DEF (D)
AFC DEFEAT
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

ASUREMENT MODE OF THE

4-26. TV DEMODULATOR PACK C.B.A. (VEP07680K: AG-4700B)

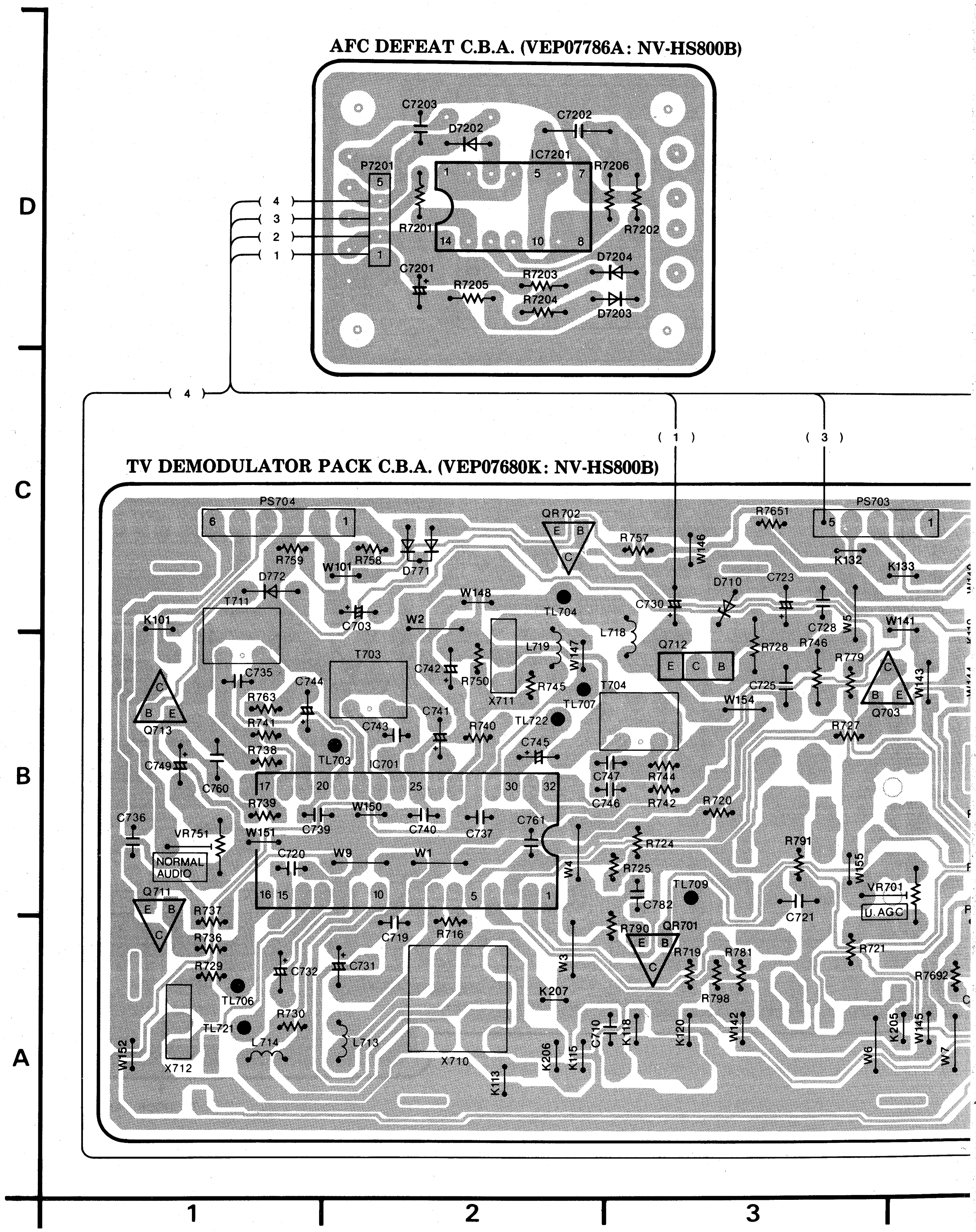

AL PATH
AUDIO SIGNAL PATH
P7201
GND
NON SW 5V
SYNC
AFC DEF (D)
IC7201 μPD4011BC
VDD
VSS
D7204 1SS254
D7203 1SS254
D7202 1SS254
R7201 10K
R7202 1M
R7206 820K
C7202 0.47
R7203 1K
R7204 4700
R7205 1K
C7201 16V10
C7203 0.01
AFC DEFEAT C.B.A. (VEP07786A)
X711 EFCS6M65MW3B
T703 EIV5EC045A
T711 EIS5EC008A
AUDIO LEVEL
VR751 5KB
TL703
TL704
TL706
TL721
VIDEO AMP
A.P.S
VCO
APC (Q)
FM DET.
LIM
LOCK DET./SW
Q IF AGC
2nd. P IF AMP
1st. P IF AMP
2nd. Q IF AMP
1st. Q IF AMP
GND
VCC
X712 EFCS6R0MS5 (6.0MHz TRAP)
X710 EFCH39MGQ1
U. AGC
VR701 5KB
Q703 MSD601 (AMP)
Q711 MSB709 (AMP)
Q712 2SD1996 (REG)
D710 MA3100L
L718 68μ
IC7651 AN5421
NOISE GATE
SYNC SEP
H. OSC
H. AFC
FILTER
VOLTAGE COMP.
OUT PUT
VR7660 2KB
15.625KHz ADJ.
IC7653 MN4066BS
Q772 MSD601 (AMP)

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

ASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

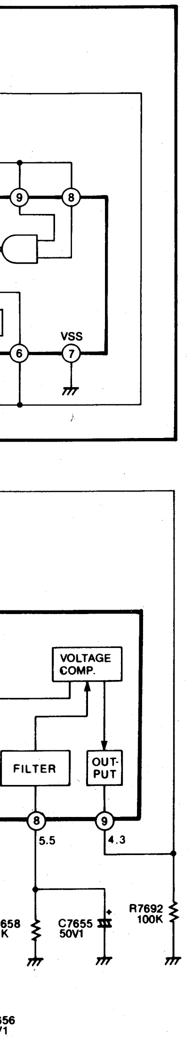
8 9 10 11 12 13 14


D
C
B
A
1
2
3
P7201
IC7201
C7203
C7202
D7202
D7204
D7203
R7201
R7202
R7203
R7204
R7205
R7206
C7201
PS704
PS703
QR702
QR701
Q712
Q713
Q703
Q711
T711
T703
T704
IC701
X710
X711
X712
VR751
NORMAL AUDIO
VR701
U.AGC
TL703
TL704
TL706
TL707
TL709
TL721
TL722

AFC DEFEAT C.B.A. (VEP07786A: NV-HS800B)

TV DEMODULATOR PACK C.B.A. (VEP07680K: NV-HS800B)

4-26. TV DEMODULATOR PACK C.B.A. (VEP07680K: AG-4700B)


VSS
VOLTAGE COMP.
FILTER
OUT-PUT
5.5
4.3
R7692 100K
C7655 50V1

NUMBER SHOWN ON THIS
R ORDERING. WHEN YOU
EFER TO PARTS LIST.

TV DEMODULATOR PACK C.B.A.

Transistor	
Q703	B-3
Q711	B-1
Q712	B-3
Q713	B-1
Q771	A-7
Q772	B-7

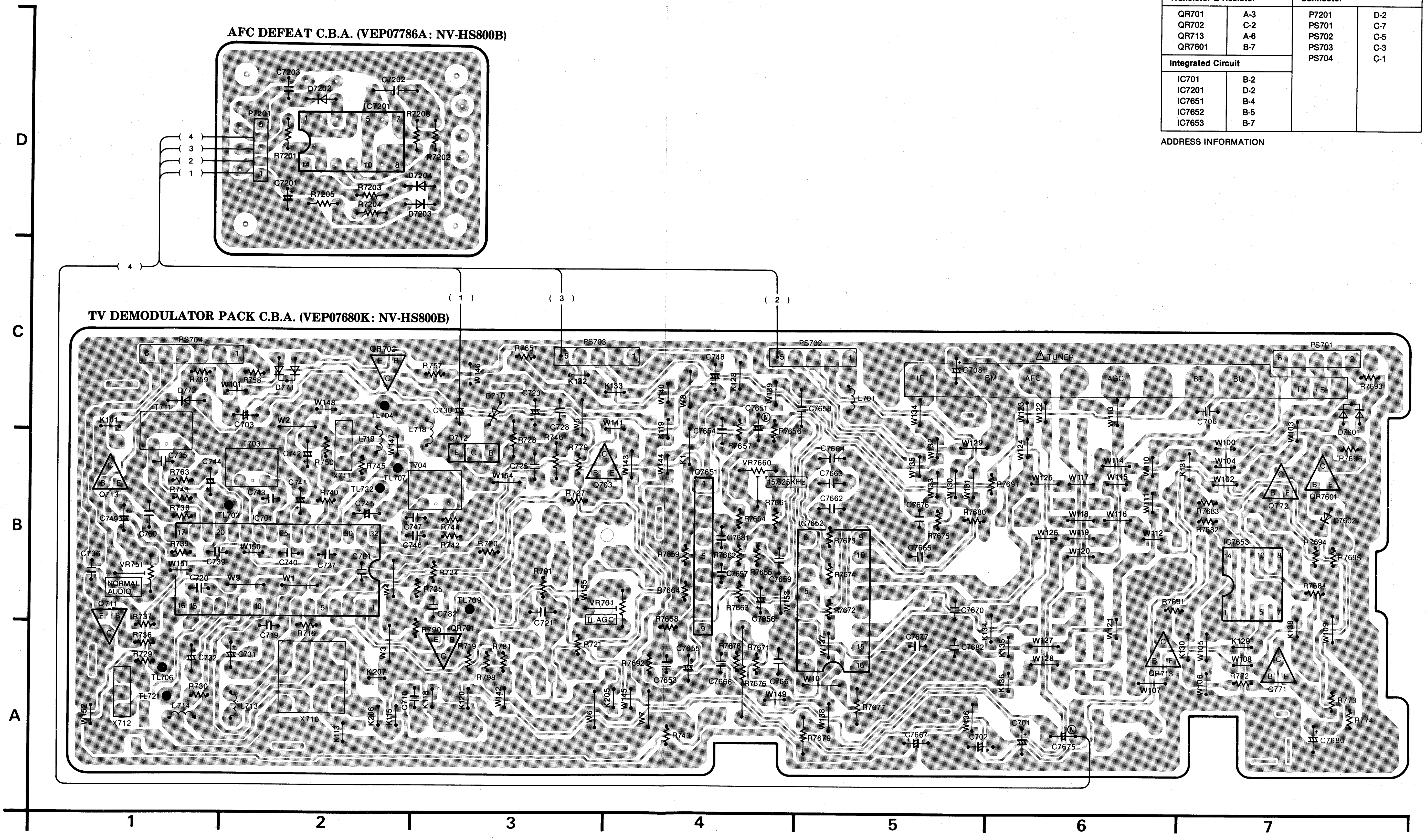
Transistor & Resistor	
QR701	A-3
QR702	C-2
QR713	A-6
QR7601	B-7

Integrated Circuit	
IC701	B-2
IC7201	D-2
IC7651	B-4
IC7652	B-5
IC7653	B-7

Adjustment	
T703	B-2
T704	B-3
T711	C-1
VR701	B-4
VR751	B-1
VR7660	B-4

Connector	
P7201	D-2
PS701	C-7
PS702	C-5
PS703	C-3
PS704	C-1

ADDRESS INFORMATION


AFC DEFEAT C.B.A. (VEP07786A: NV-HS800B)
TV DEMODULATOR PACK C.B.A. (VEP07680K: NV-HS800B)
D
C
B
A
1
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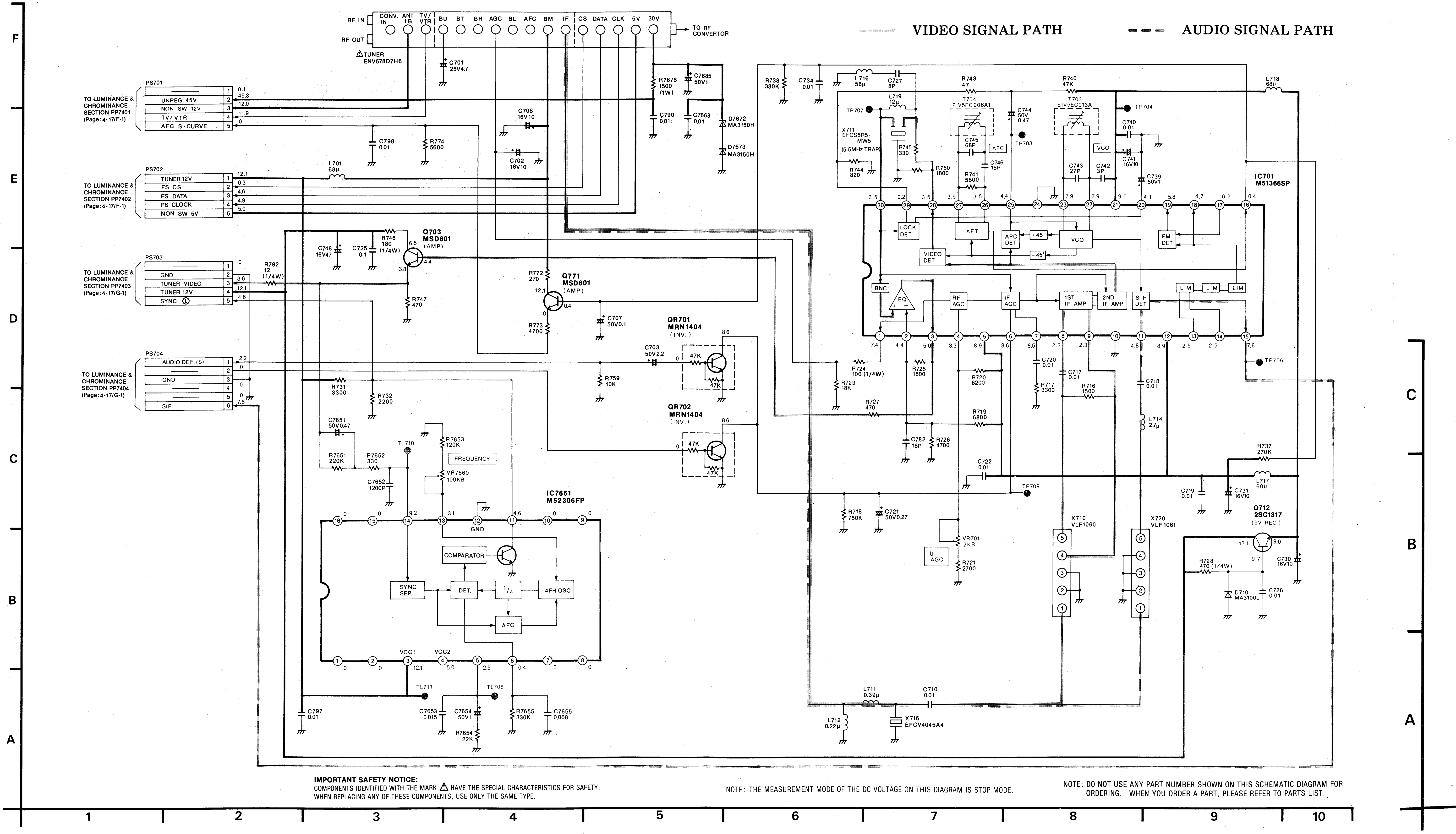
6
7
4
3
2
1
(1)
(3)
(2)
P7201
IC7201
C7201
C7202
C7203
D7202
D7203
D7204
R7201
R7202
R7203
R7204
R7205
R7206
PS704
PS703
PS702
PS701
TUNER
IF
BM
AFC
AGC
BT
BU
TV +B
QR702
QR701
QR713
QR7601
Q703
Q711
Q712
Q713
Q771
Q772
IC701
IC7651
IC7652
IC7653
T703
T704
T711
VR701
VR751
VR7660
15.625KHz
U.AGC
NORMAL AUDIO
X710
X711
X712
L701
L713
L714
L718
L719
TL703
TL704
TL706
TL707
TL709
TL721
TL722
D710
D771
D772
D7601
D7602

4-27. TV DEMODULATOR PACK SCHEMATIC DIAGRAM (AG-4700E)

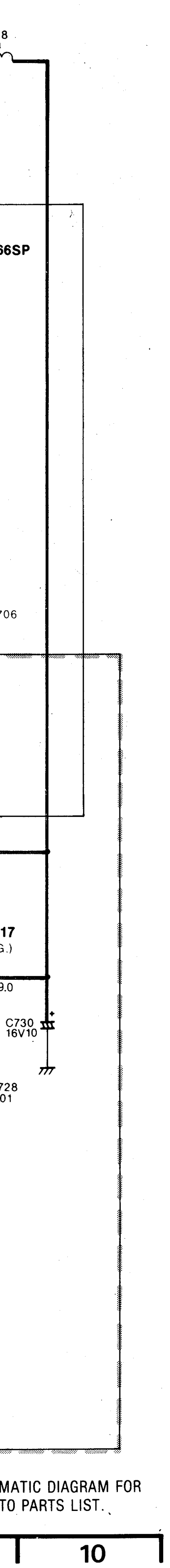

VIDEO SIGNAL PATH
AUDIO SIGNAL PATH
RF IN
RF OUT
CONV. IN
ANT +B
TV/VTR
BU
BT
BH
AGC
BL
AFC
BM
IF
CS
DATA
CLK
5V
30V
TO RF CONVERTOR
TUNER ENV578D7H6
PS701
TO LUMINANCE & CHROMINANCE SECTION PP7401 (Page: 4-17/F-1)
UNREG 45V
NON SW 12V
TV/VTR
AFC S-CURVE
PS702
TO LUMINANCE & CHROMINANCE SECTION PP7402 (Page: 4-17/F-1)
TUNER 12V
FS CS
FS DATA
FS CLOCK
NON SW 5V
PS703
TO LUMINANCE & CHROMINANCE SECTION PP7403 (Page: 4-17/G-1)
GND
TUNER VIDEO
TUNER 12V
SYNC
PS704
TO LUMINANCE & CHROMINANCE SECTION PP7404 (Page: 4-17/G-1)
AUDIO DEF (S)
GND
SIF
Q703 MSD601 (AMP)
Q771 MSD601 (AMP)
QR701 MRN1404 (INV.)
QR702 MRN1404 (INV.)
IC7651 M52306FP
COMPARATOR
SYNC SEP.
DET.
1/4
4FH OSC
AFC
FREQUENCY
VR7660 100KB
TL710
TL711
TL708
VCC1
VCC2
GND
D7672 MA3150H
D7673 MA3150H
IC701 M51366SP
LOCK DET
AFT
APC DET
+45°
-45°
VCO
FM DET
VIDEO DET
BNC
EQ
RF AGC
IF AGC
1ST IF AMP
2ND IF AMP
SIF DET
LIM
X711 EFCS5R5-MW5 (5.5MHz TRAP)
T704 EIV5EC006A1
T703 EIV5EC013A
TP703
TP704
TP706
TP707
TP709
VR701 2KB
U AGC
X710 VLF1060
X720 VLF1061
X716 EFCV4045A4
Q712 2SC1317 (9V REG.)
D710 MA3100L
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
10

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

AL PATH



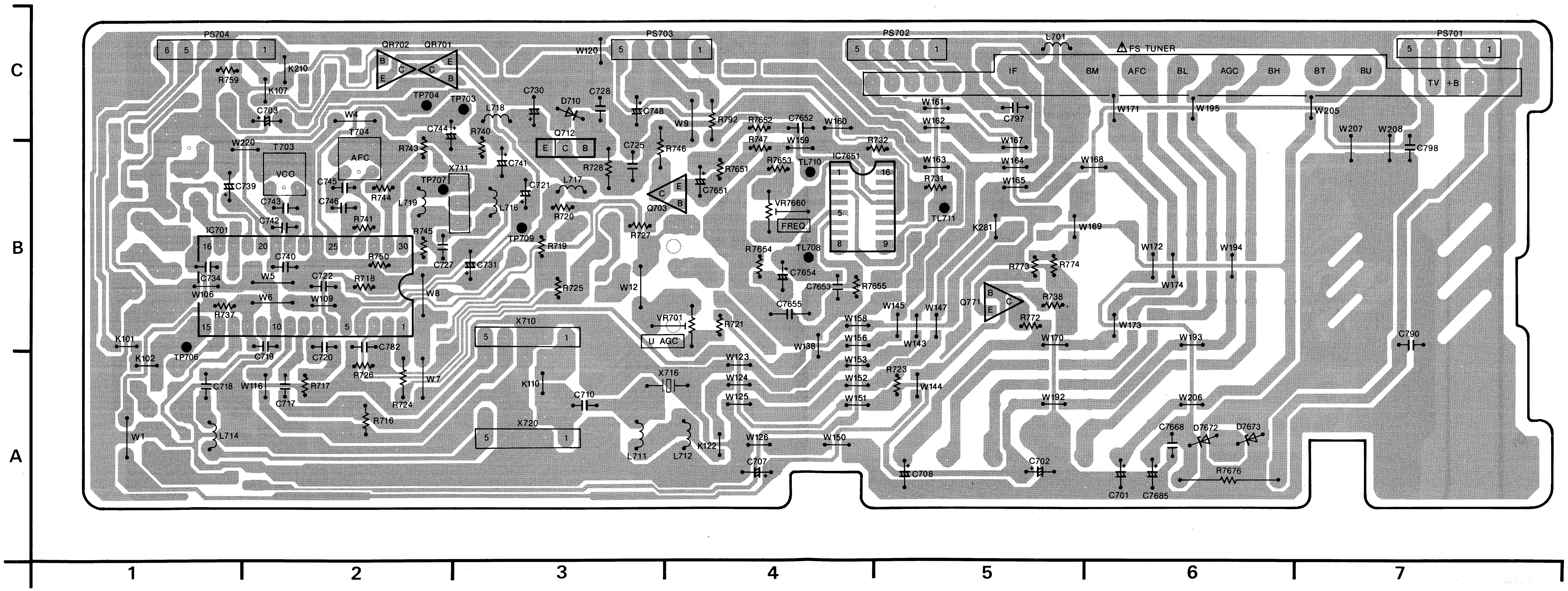
8
66SP
'06
17
.)
9.0
C730
16V10
728
01
10

MATIC DIAGRAM FOR
TO PARTS LIST.

4-28. TV DEMODULATOR PACK C.B.A. (VEP07749A: AG-4700E)

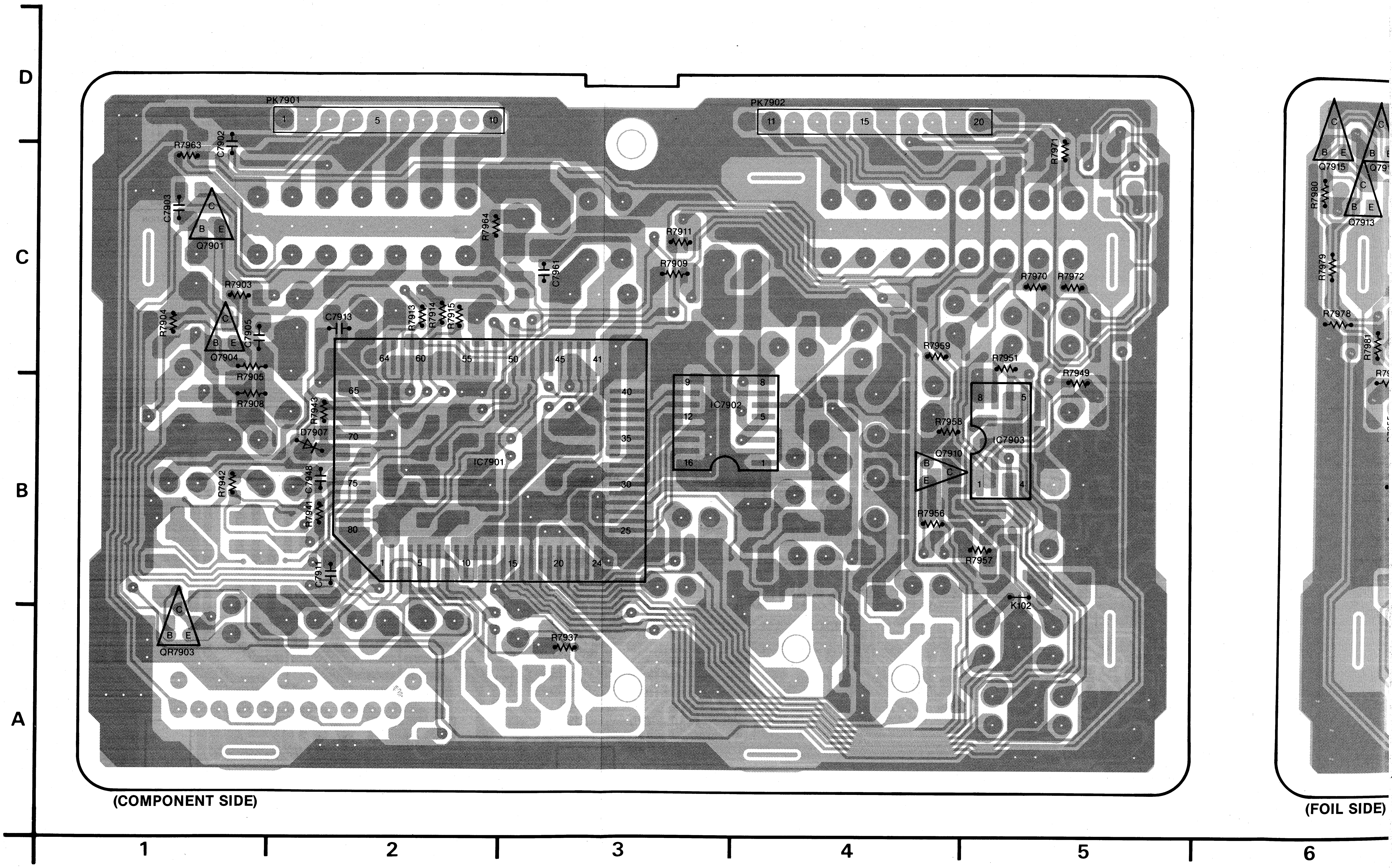
TV DEMODULATOR PACK C.B.A.			
Transistor		**Adjustment**	
Q703	B-3	T703	B-2
Q712	B-3	T704	B-2
Q771	B-5	VR701	B-4
Transistor & Resistor		VR7660	B-4
QR701	C-2	**Connector**	
QR702	C-2	PS701	C-7
Integrated Circuit		PS702	C-5
IC701	B-1	PS703	C-3
IC7651	B-4	PS704	C-1
Test Point			
TP703	C-3		
TP704	C-2		
TP706	A-1		
TP707	B-2		
TP709	B-3		

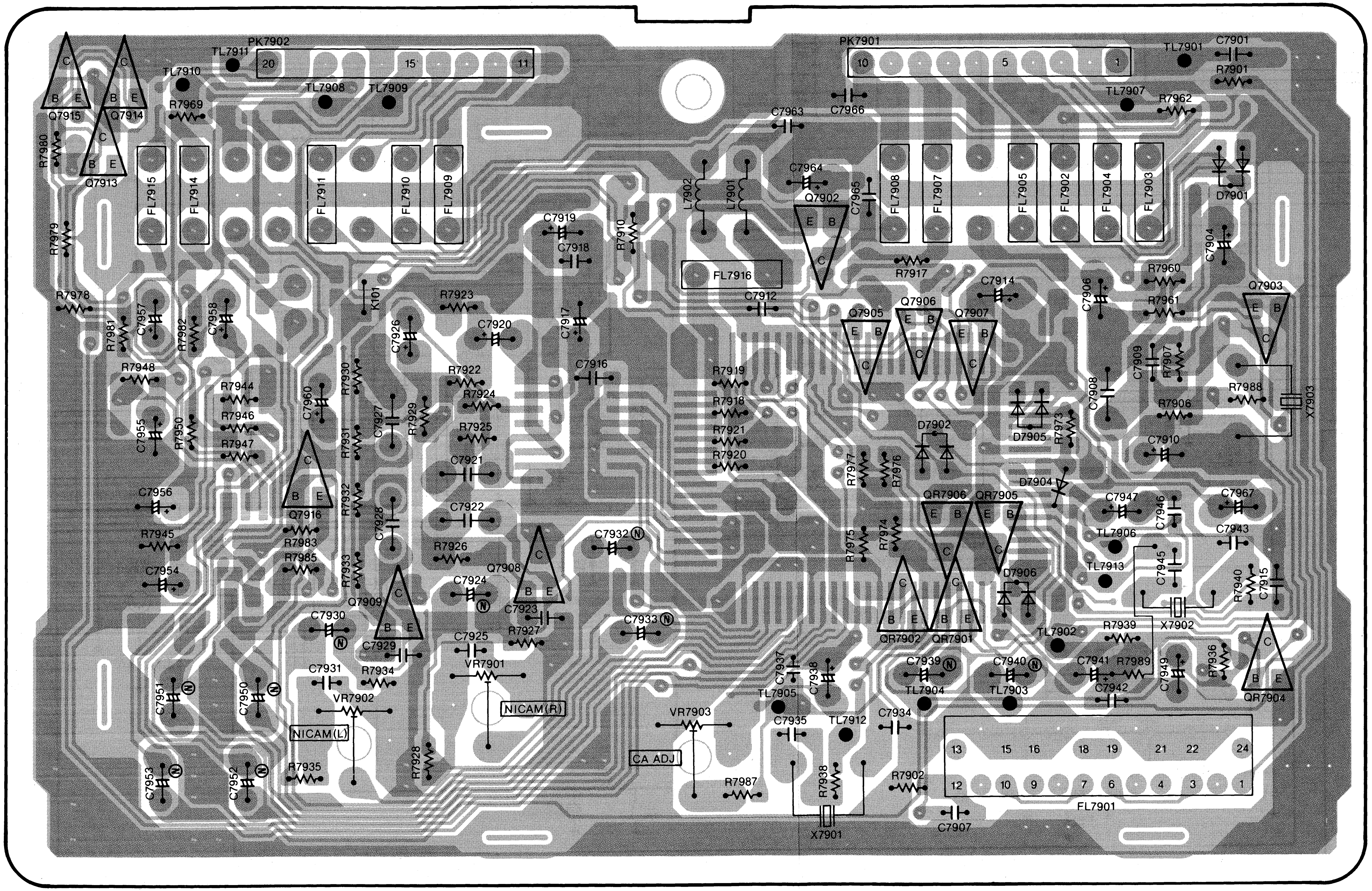
ADDRESS INFORMATION



C
B
A
1
2
3
4
5
6
7
PS704
PS703
PS702
PS701
QR702
QR701
K210
R759
K107
C703
TP704
TP703
W4
T704
AFC
T703
VCO
W220
C739
C743
C742
C745
C746
R744
R741
IC701
16
20
25
30
15
10
5
1
C734
C740
R750
W5
C722
R718
W106
W6
W109
R737
K101
K102
TP706
C719
C720
C782
R726
C718
W116
C717
R717
R724
W7
W8
R716
L714
W1
L718
C744
R740
R743
X711
TP707
L719
L716
C741
R745
C727
C731
TP709
C730
D710
C728
Q712
E
C
B
C721
L717
R720
R719
R728
R725
X710
K110
C710
X720
X716
L711
L712
K122
W120
C748
C725
R746
Q703
R727
W12
VR701
U AGC
R721
W9
R792
R7652
C7652
W160
R747
W159
R7653
TL710
IC7651
R7651
C7651
VR7660
FREQ.
R7654
TL708
C7654
C7653
R7655
C7655
W138
W123
W124
W125
W126
C707
W150
W158
W156
W153
W152
W151
W145
W143
W147
R732
W161
W162
W163
R731
TL711
K281
R723
W144
C708
C702
L701
FS TUNER
IF
BM
AFC
BL
AGC
BH
BT
BU
TV +B
C797
W167
W164
W165
W168
W169
W171
W195
W205
W207
W208
C798
W172
W194
W174
R773
R774
Q771
R738
R772
W170
W173
W193
C790
W192
W206
C7668
D7672
D7673
R7676
C701
C7685

4-29. NICAM DECODER PACK C.B.A. (VEP07675A: AG-4700B)


D
C
B
A
1
2
3
4
5
6
PK7901
PK7902
R7963
C7902
C7903
Q7901
R7903
R7904
Q7904
C7905
R7905
R7908
C7913
R7913
R7914
R7915
R7964
C7961
R7911
R7909
R7943
D7907
R7942
C7948
R7941
C7911
QR7903
IC7901
R7937
IC7902
R7971
R7970
R7972
R7959
R7951
R7949
R7958
IC7903
Q7910
R7956
R7957
K102
Q7915
Q7913
R7980
R7979
R7978
R7981
(COMPONENT SIDE)
(FOIL SIDE)


PK7902
20
15
11
TL7911
TL7910
TL7908
TL7909
Q7915
Q7914
Q7913
C
B
E
R7969
R7980
R7979
R7978
FL7915
FL7914
FL7911
FL7910
FL7909
C7919
C7918
R7910
K101
R7923
C7920
C7926
C7917
C7916
R7981
C7957
R7982
C7958
R7948
R7944
R7946
R7947
C7955
R7950
C7960
R7930
R7931
C7927
R7929
R7922
R7924
R7925
C7921
C7956
Q7916
R7983
R7985
R7945
C7954
R7932
C7928
C7922
R7926
R7933
Q7909
Q7908
C7924
C7923
C7932
C7933
C7930
C7929
C7925
R7927
C7931
R7934
VR7901
VR7902
NICAM(R)
NICAM(L)
C7951
C7950
C7953
C7952
R7935
R7928
VR7903
CA ADJ
R7987
PK7901
10
5
1
TL7901
C7901
R7901
TL7907
R7962
C7963
C7966
C7964
C7965
L7902
L7901
Q7902
FL7908
FL7907
FL7905
FL7902
FL7904
FL7903
D7901
C7904
FL7916
R7917
C7912
C7914
Q7906
Q7905
Q7907
C7906
R7960
R7961
Q7903
R7919
R7918
R7921
R7920
C7909
R7907
C7908
R7988
X7903
R7906
D7902
D7905
R7973
C7910
R7977
R7976
D7904
QR7906
QR7905
C7947
C7946
C7967
TL7906
C7943
R7975
R7974
TL7913
C7945
D7906
R7940
C7915
X7902
QR7902
QR7901
TL7902
R7939
C7941
R7989
C7937
C7938
C7939
C7940
C7942
C7949
R7936
QR7904
TL7905
TL7904
TL7903
C7935
TL7912
C7934
R7938
R7902
X7901
C7907
FL7901
13
15
16
18
19
21
22
24
12
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4
3
1

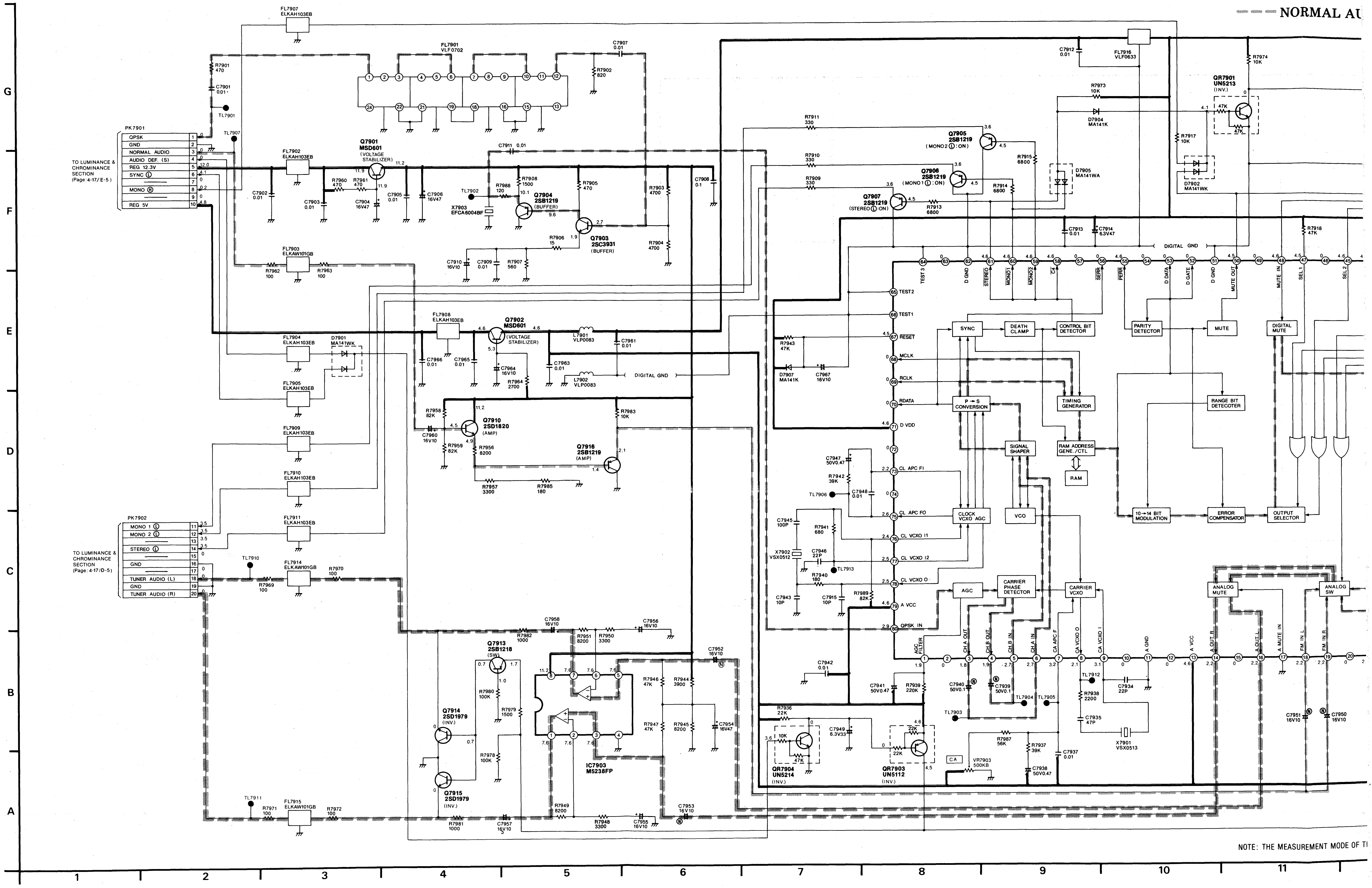
(FOIL SIDE)

6 | 7 | 8 | 9 | 10

NICAM DECODER PACK C.B.A.	
Transistor	
Q7901	C-1
Q7902	C-9
Q7903	C-10
Q7904	C-1
Q7905	C-9
Q7906	C-9
Q7907	C-9
Q7908	B-8
Q7909	B-7
Q7910	B-4
Q7913	C-6
Q7914	D-6
Q7915	D-6
Q7916	B-7
Transistor & Resistor	
QR7901	B-5
QR7902	B-9
QR7903	A-1
QR7904	A-10
QR7905	B-9
QR7906	B-9
Integrated Circuit	
IC7901	B-2
IC7902	B-3
IC7903	B-5
Adjustment	
VR7901	A-8
VR7902	A-7
VR7903	A-8
Connector	
PK7901	D-2
PK7901	D-9
PK7902	D-4
PK7902	D-7

ADDRESS INFORMATION

4-30. NICAM DECODER PACK SCHEMATIC DIAGRAM (AG-4700B)



NORMAL AU
PK7901
QPSK
GND
NORMAL AUDIO
AUDIO DEF. (S)
REG 12.3V
SYNC Ⓛ
MONO Ⓗ
REG 5V
TO LUMINANCE & CHROMINANCE SECTION (Page: 4-17/E-5)
PK7902
MONO 1 Ⓛ
MONO 2 Ⓛ
STEREO Ⓛ
GND
TUNER AUDIO (L)
GND
TUNER AUDIO (R)
TO LUMINANCE & CHROMINANCE SECTION (Page: 4-17/D-5)
FL7907 ELKAH103EB
FL7901 VLF0702
FL7902 ELKAH103EB
FL7903 ELKAW101GB
FL7904 ELKAH103EB
FL7905 ELKAH103EB
FL7908 ELKAH103EB
FL7909 ELKAH103EB
FL7910 ELKAH103EB
FL7911 ELKAH103EB
FL7914 ELKAW101GB
FL7915 ELKAW101GB
FL7916 VLF0633
Q7901 MSD601 (VOLTAGE STABILIZER)
Q7902 MSD601 (VOLTAGE STABILIZER)
Q7903 2SC3931 (BUFFER)
Q7904 2SB1219 (BUFFER)
Q7905 2SB1219 (MONO2 Ⓛ: ON)
Q7906 2SB1219 (MONO1 Ⓛ: ON)
Q7907 2SB1219 (STEREO Ⓛ: ON)
Q7910 2SD1820 (AMP)
Q7913 2SB1218 (SW)
Q7914 2SD1979 (INV.)
Q7915 2SD1979 (INV.)
Q7916 2SB1219 (AMP)
QR7901 UN5213 (INV.)
QR7903 UN5112 (INV.)
QR7904 UN5214 (INV.)
IC7903 M5238FP
X7901 VSX0513
X7902 VSX0512
X7903 EFCA6004BF
D7901 MA141WK
D7902 MA141WK
D7904 MA141K
D7905 MA141WA
D7907 MA141K
L7901 VLP0083
L7902 VLP0083
VR7903 500KB
DIGITAL GND
TL7901
TL7902
TL7903
TL7904
TL7905
TL7906
TL7907
TL7910
TL7911
TL7912
TL7913
TEST 3
D GND
STEREO
MONO1
MONO2
C4
SERR
PERR
D DATA
D GATE
D GND
MUTE OUT
MUTE IN
SEL 1
SEL 2
TEST2
TEST1
RESET
MCLK
RCLK
RDATA
D VDD
CL APC FI
CL APC FO
CL VCXO I1
CL VCXO I2
CL VCXO O
A VCC
QPSK IN
AGC FILTER
CH A OUT
CH B OUT
CH B IN
CH A IN
CA APC F
CA VCXO O
CA VCXO I
A GND
A VCC
A OUT R
A OUT L
A MUTE IN
FM IN L
FM IN R
SYNC
DEATH CLAMP
CONTROL BIT DETECTOR
PARITY DETECTOR
MUTE
DIGITAL MUTE
P→S CONVERSION
TIMING GENERATOR
RANGE BIT DETECOTER
SIGNAL SHAPER
RAM ADDRESS GENE./CTL
RAM
CLOCK VCXO AGC
VCO
10→14 BIT MODULATION
ERROR COMPENSATOR
OUTPUT SELECTOR
AGC
CARRIER PHASE DETECTOR
CARRIER VCXO
ANALOG MUTE
ANALOG SW
CA
G
F
E
D
C
B
A
1
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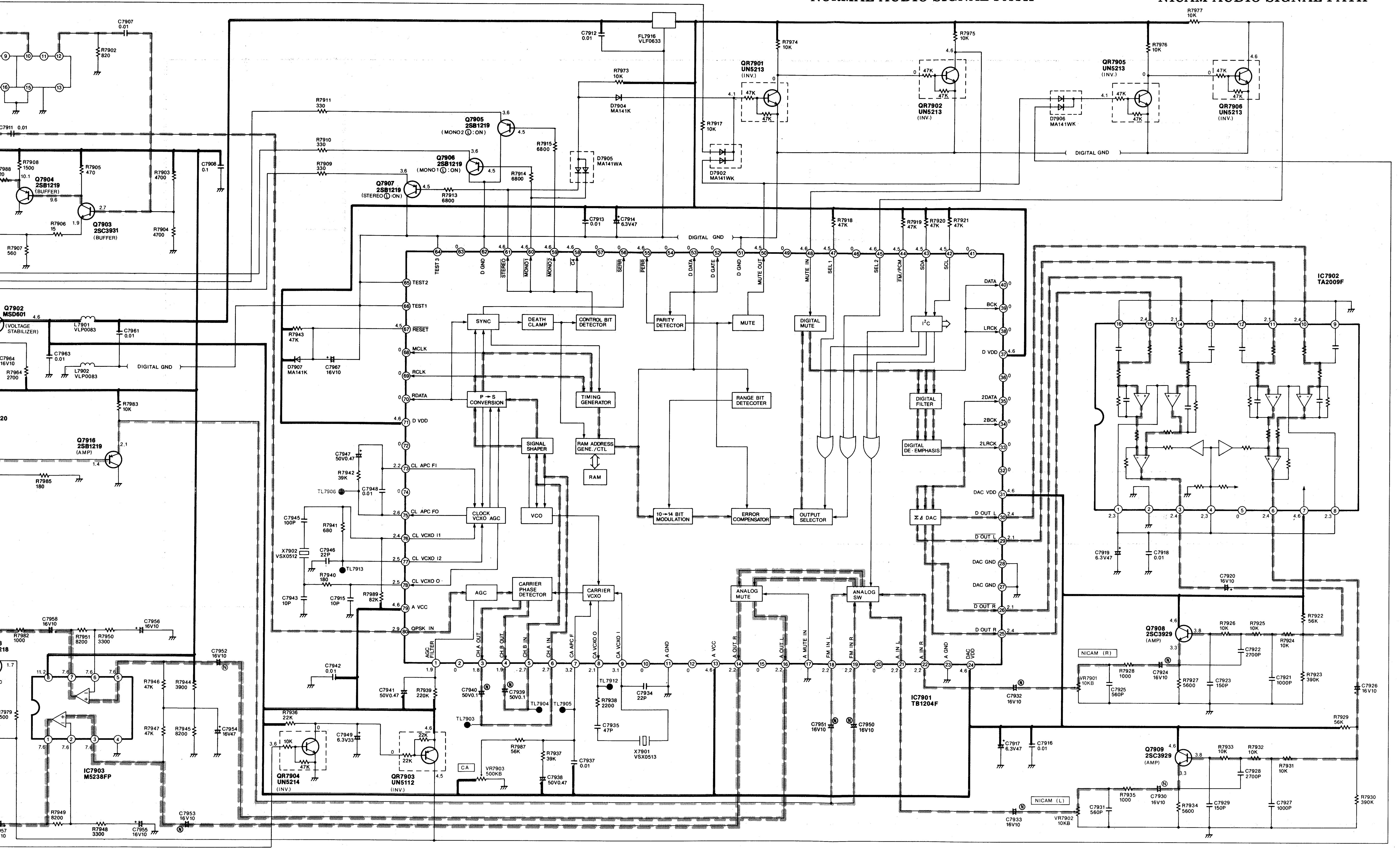
11

NOTE: THE MEASUREMENT MODE OF T

G-4700B)

NORMAL AUDIO SIGNAL PATH

NICAM AUDIO SIGNAL PATH


C7907 0.01
R7902 820
Q7904 2SB1219 (BUFFER)
Q7903 2SC3931 (BUFFER)
R7908 1500
R7905 470
R7903 4700
R7904 4700
R7906 15
R7907 560
C7908 0.1
Q7902 MSD601 (VOLTAGE STABILIZER)
L7901 VLP0083
C7961 0.01
C7963 0.01
C7964 16V10
R7964 2700
L7902 VLP0083
DIGITAL GND
R7983 10K
Q7916 2SB1219 (AMP)
R7985 180
C7958 16V10
R7982 1000
R7951 8200
R7950 3300
C7956 16V10
C7952 16V10
R7946 47K
R7944 3900
R7947 47K
R7945 8200
C7954 16V47
IC7903 M5238FP
R7949 8200
R7948 3300
C7955 16V10
C7953 16V10
C7912 0.01
FL7916 VLF0633
R7973 10K
D7904 MA141K
R7911 330
R7910 330
R7909 330
Q7905 2SB1219 (MONO2 ①:ON)
Q7906 2SB1219 (MONO1 ①:ON)
Q7907 2SB1219 (STEREO ①:ON)
R7915 6800
R7914 6800
R7913 6800
D7905 MA141WA
C7913 0.01
C7914 6.3V47
R7943 47K
D7907 MA141K
C7967 16V10
C7947 50V0.47
R7942 39K
C7948 0.01
TL7906
C7945 100P
R7941 680
X7902 VSX0512
C7946 22P
TL7913
R7940 180
C7943 10P
C7915 10P
R7989 82K
C7942 0.01
C7941 50V0.47
R7939 220K
C7940 50V0.1
C7939 50V0.1
TL7903
TL7904
TL7905
TL7912
R7938 2200
C7934 22P
C7935 47P
X7901 VSX0513
R7936 22K
QR7904 UN5214 (INV.)
C7949 6.3V33
QR7903 UN5112 (INV.)
R7987 56K
R7937 39K
C7937 0.01
C7938 50V0.47
VR7903 500KB
CA
TEST3 TEST2 TEST1 RESET MCLK RCLK RDATA D VDD CL APC FI CL APC FO CL VCXO I1 CL VCXO I2 CL VCXO O A VCC QPSK IN
D GND STEREO MONO1 MONO2 C4 SERR PERR D DATA D GATE D GND MUTE OUT MUTE IN SEL 1 SEL 2 FM/PCM SDA SCL
DATA BCK LRCK D VDD 2DATA 2BCK 2LRCK DAC VDD D OUT L D OUT L DAC GND DAC GND D OUT R D OUT R
AGC FILTER CH A OUT CH B OUT CH B IN CH A IN CA APC F CA VCXO O CA VCXO I A GND A VCC A OUT R A OUT L A MUTE IN FM IN L FM IN R A IN L A IN R A GND DAC VDD
SYNC
DEATH CLAMP
CONTROL BIT DETECTOR
PARITY DETECTOR
MUTE
DIGITAL MUTE
I²C
P→S CONVERSION
TIMING GENERATOR
RANGE BIT DETECTOR
DIGITAL FILTER
SIGNAL SHAPER
RAM ADDRESS GENE./CTL
RAM
DIGITAL DE-EMPHASIS
CLOCK VCXO AGC
VCO
10→14 BIT MODULATION
ERROR COMPENSATOR
OUTPUT SELECTOR
Σ⊿ DAC
AGC
CARRIER PHASE DETECTOR
CARRIER VCXO
ANALOG MUTE
ANALOG SW
IC7901 TB1204F
C7951 16V10
C7950 16V10
R7974 10K
QR7901 UN5213 (INV.)
R7917 10K
D7902 MA141WK
R7975 10K
QR7902 UN5213 (INV.)
DIGITAL GND
R7918 47K
R7919 47K
R7920 47K
R7921 47K
R7977 10K
R7976 10K
QR7905 UN5213 (INV.)
D7906 MA141WK
QR7906 UN5213 (INV.)
IC7902 TA2009F
C7919 6.3V47
C7918 0.01
C7920 16V10
Q7908 2SC3929 (AMP)
R7926 10K
R7925 10K
R7922 56K
C7922 2700P
R7924 10K
NICAM (R)
VR7901 10KB
R7928 1000
C7924 16V10
R7927 5600
C7923 150P
C7921 1000P
R7923 390K
C7926 16V10
C7925 560P
C7932 16V10
R7929 56K
C7917 6.3V47
C7916 0.01
Q7909 2SC3929 (AMP)
R7933 10K
R7932 10K
C7928 2700P
R7931 10K
R7935 1000
C7930 16V10
R7934 5600
C7929 150P
C7927 1000P
R7930 390K
NICAM (L)
C7931 560P
VR7902 10KB
C7933 16V10

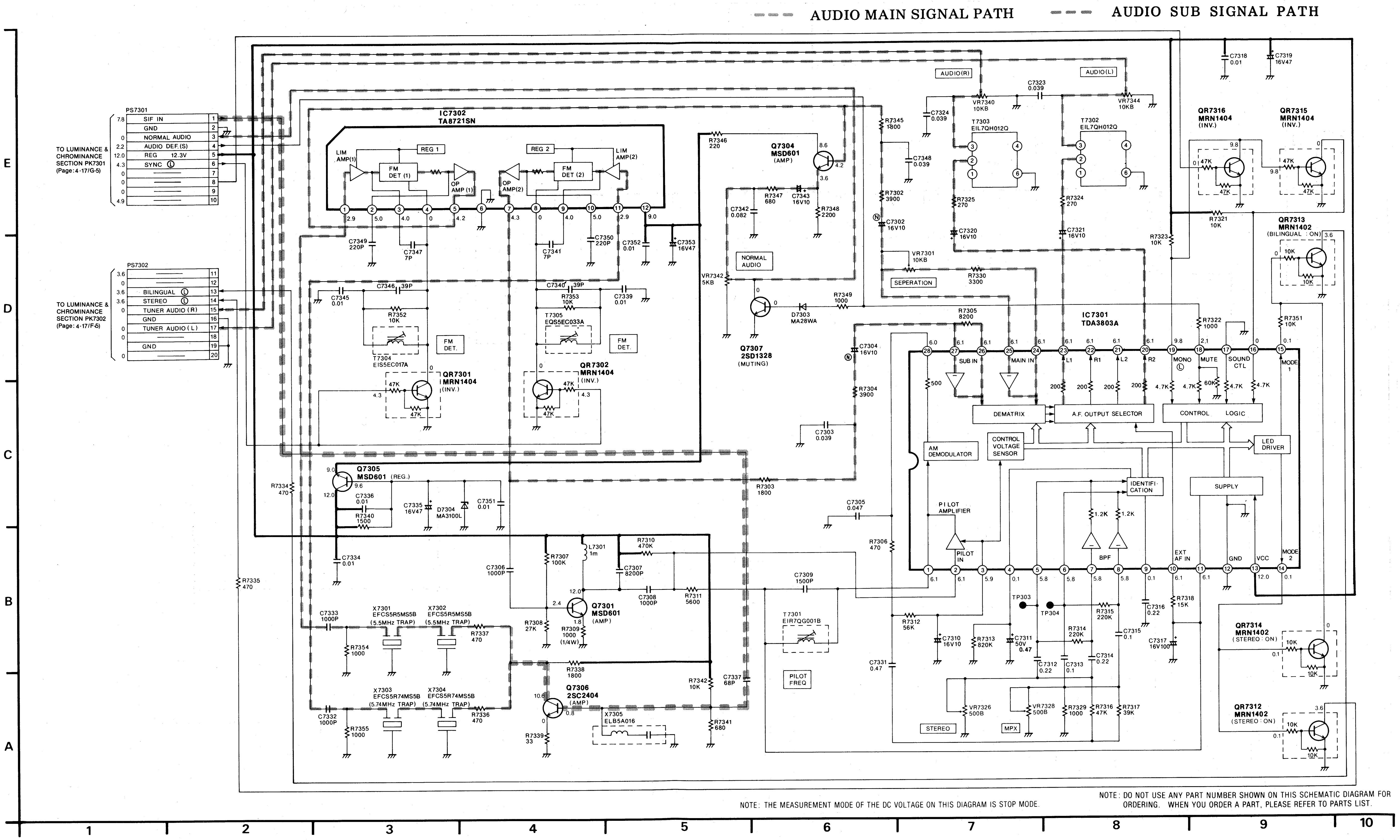
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

5 6 7 8 9 10 11 12 13 14 15

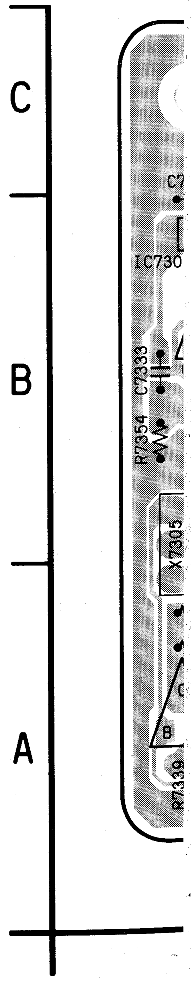
4-31. DECODER PACK SCHEMATIC DIAGRAM (AG-4700E)

4-32. DEC


AUDIO MAIN SIGNAL PATH
AUDIO SUB SIGNAL PATH
PS7301
SIF IN
GND
NORMAL AUDIO
AUDIO DEF.(S)
REG 12.3V
SYNC Ⓛ
TO LUMINANCE & CHROMINANCE SECTION PK7301 (Page: 4-17/G-5)
PS7302
BILINGUAL Ⓛ
STEREO Ⓛ
TUNER AUDIO (R)
GND
TUNER AUDIO (L)
TO LUMINANCE & CHROMINANCE SECTION PK7302 (Page: 4-17/F-5)
IC7302
TA8721SN
REG 1
REG 2
LIM AMP(1)
LIM AMP(2)
FM DET (1)
FM DET (2)
OP AMP (1)
OP AMP(2)
C7349 220P
C7347 7P
C7341 7P
C7350 220P
C7352 0.01
C7353 16V47
C7345 0.01
C7346 39P
C7340 39P
R7352 10K
R7353 10K
C7339 0.01
T7304 EISSEC017A
T7305 EQS5EC033A
FM DET.
QR7301 MRN1404 (INV.)
QR7302 MRN1404 (INV.)
R7346 220
Q7304 MSD601 (AMP)
R7347 680
C7343 16V10
C7342 0.082
R7348 2200
NORMAL AUDIO
VR7342 5KB
Q7307 2SD1328 (MUTING)
D7303 MA28WA
R7349 1000
Q7305 MSD601 (REG.)
R7334 470
C7336 0.01
R7340 1500
C7335 16V47
D7304 MA3100L
C7351 0.01
C7334 0.01
R7335 470
C7333 1000P
X7301 EFCS5R5MS5B (5.5MHz TRAP)
X7302 EFCS5R5MS5B (5.5MHz TRAP)
R7337 470
R7354 1000
X7303 EFCS5R74MS5B (5.74MHz TRAP)
X7304 EFCS5R74MS5B (5.74MHz TRAP)
R7336 470
C7332 1000P
R7355 1000
C7306 1000P
R7307 100K
L7301 1m
R7310 470K
C7307 8200P
Q7301 MSD601 (AMP)
R7308 27K
R7309 1000 (1/4W)
C7308 1000P
R7311 5600
R7338 1800
Q7306 2SC2404 (AMP)
R7339 33
X7305 ELB5A016
R7342 10K
C7337 68P
R7341 680
R7303 1800
AUDIO(R)
AUDIO(L)
C7323 0.039
VR7340 10KB
VR7344 10KB
R7345 1800
C7324 0.039
T7303 EIL7QH012Q
T7302 EIL7QH012Q
C7348 0.039
R7302 3900
C7302 16V10
R7325 270
R7324 270
C7320 16V10
C7321 16V10
VR7301 10KB
SEPERATION
R7330 3300
R7305 8200
C7304 16V10
R7304 3900
C7303 0.039
C7305 0.047
R7306 470
IC7301 TDA3803A
SUB IN
MAIN IN
L1
R1
L2
R2
MONO Ⓛ
MUTE
SOUND CTL
MODE 1
DEMATRIX
A.F. OUTPUT SELECTOR
CONTROL LOGIC
LED DRIVER
AM DEMODULATOR
CONTROL VOLTAGE SENSOR
IDENTIFICATION
SUPPLY
PILOT AMPLIFIER
PILOT IN
BPF
EXT AF IN
GND
VCC
MODE 2
R7322 1000
R7323 10K
R7321 10K
R7351 10K
C7309 1500P
T7301 EIR7QG001B
PILOT FREQ
R7312 56K
C7331 0.47
C7310 16V10
R7313 820K
C7311 50V 0.47
TP303
TP304
R7315 220K
R7314 220K
C7312 0.22
C7313 0.1
C7314 0.22
C7315 0.1
C7316 0.22
R7318 15K
C7317 16V100
VR7326 500B
VR7328 500B
R7329 1000
R7316 47K
R7317 39K
STEREO
MPX
C7318 0.01
C7319 16V47
QR7316 MRN1404 (INV.)
QR7315 MRN1404 (INV.)
QR7313 MRN1402 (BILINGUAL : ON)
QR7314 MRN1402 (STEREO : ON)
QR7312 MRN1402 (STEREO : ON)
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10

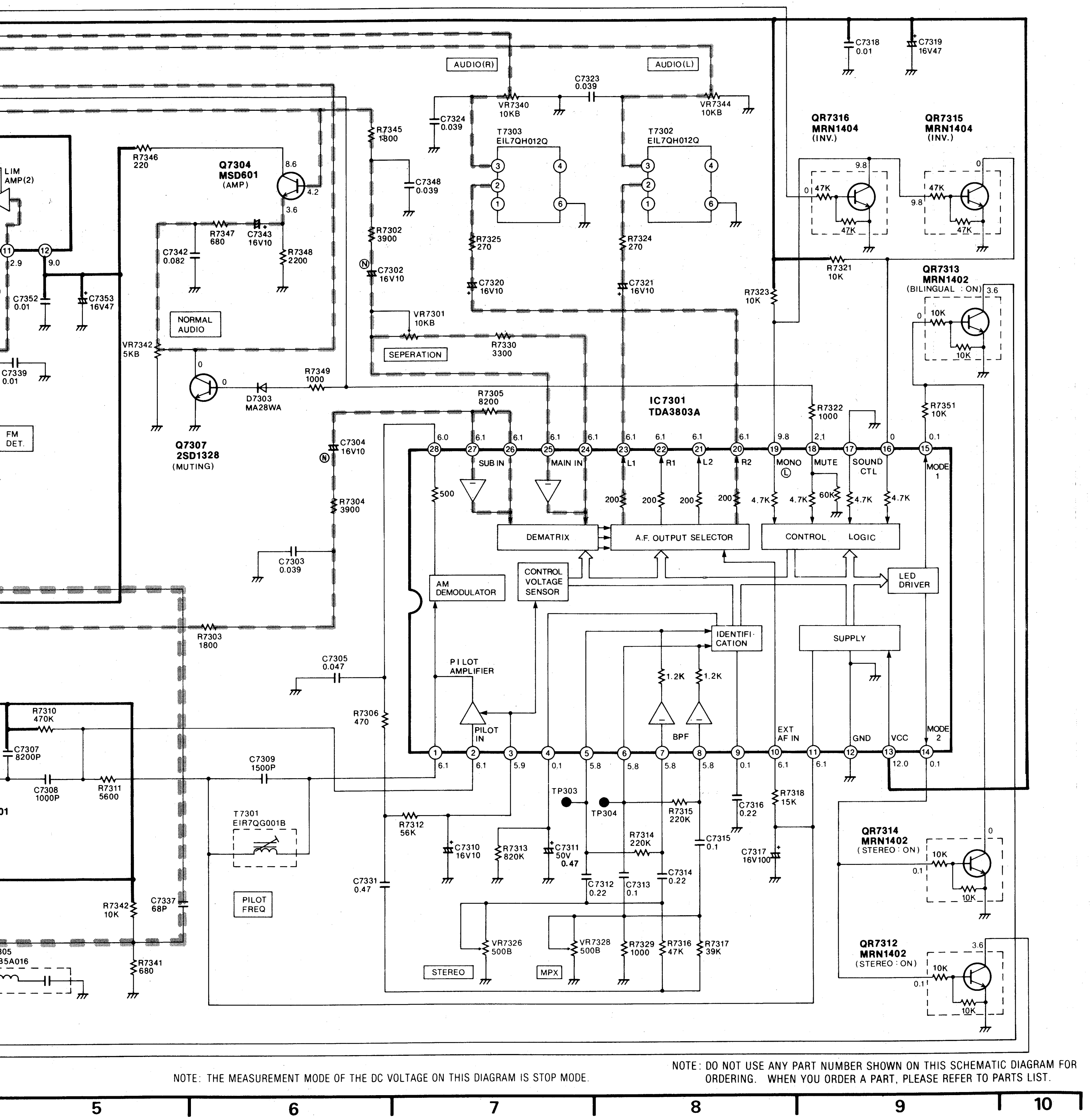
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.


C
B
A
IC730
C7333
R7354
X7305
R7339

4-32. DECODER PACK C.B.A. (VEP07671A: AG-4700E)

AUDIO MAIN SIGNAL PATH   AUDIO SUB SIGNAL PATH

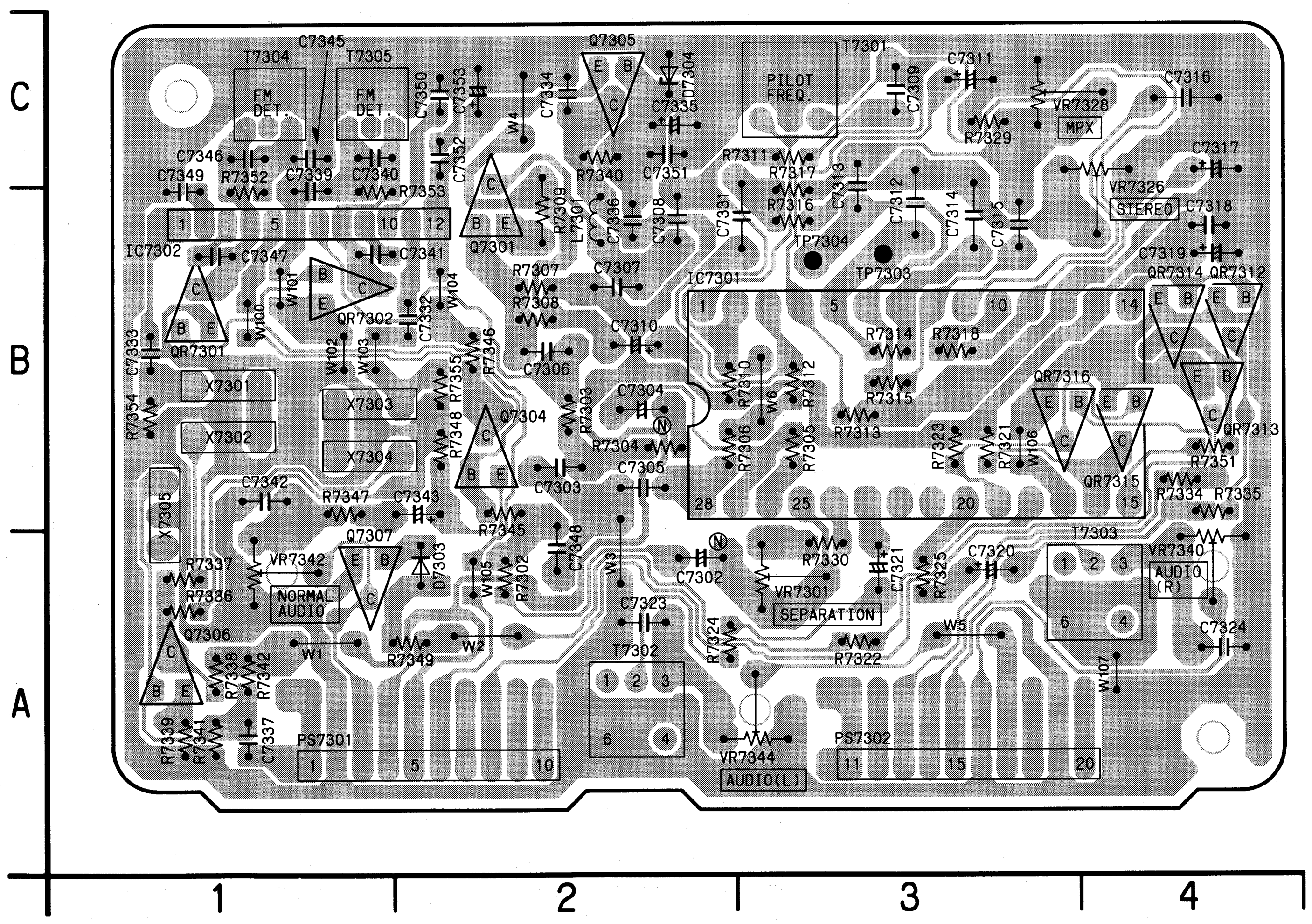

AUDIO(R)
AUDIO(L)
C7323 0.039
VR7340 10KB
VR7344 10KB
T7303 EIL7QH012Q
T7302 EIL7QH012Q
C7324 0.039
R7345 1800
C7348 0.039
R7346 220
Q7304 MSD601 (AMP)
LIM AMP(2)
R7347 680
C7343 16V10
R7348 2200
C7342 0.082
C7352 0.01
C7353 16V47
R7302 3900
C7302 16V10
R7325 270
R7324 270
C7320 16V10
C7321 16V10
NORMAL AUDIO
VR7342 5KB
VR7301 10KB
SEPERATION
R7330 3300
C7339 0.01
R7349 1000
D7303 MA28WA
Q7307 2SD1328 (MUTING)
FM DET.
R7305 8200
C7304 16V10
R7304 3900
C7303 0.039
IC7301 TDA3803A
SUB IN
MAIN IN
L1
R1
L2
R2
MONO
MUTE
SOUND CTL
MODE 1
DEMATRIX
A.F. OUTPUT SELECTOR
CONTROL LOGIC
CONTROL VOLTAGE SENSOR
AM DEMODULATOR
LED DRIVER
IDENTIFI-CATION
SUPPLY
PILOT AMPLIFIER
PILOT IN
BPF
EXT AF IN
GND
VCC
MODE 2
C7318 0.01
C7319 16V47
QR7316 MRN1404 (INV.)
QR7315 MRN1404 (INV.)
R7321 10K
R7323 10K
QR7313 MRN1402 (BILINGUAL : ON)
R7322 1000
R7351 10K
R7303 1800
C7305 0.047
R7306 470
R7310 470K
C7307 8200P
C7308 1000P
R7311 5600
C7309 1500P
T7301 EIR7QG001B
PILOT FREQ
R7312 56K
C7310 16V10
R7313 820K
C7311 50V 0.47
TP303
TP304
R7315 220K
R7314 220K
C7315 0.1
C7316 0.22
R7318 15K
C7317 16V100
C7312 0.22
C7313 0.1
C7314 0.22
C7331 0.47
R7342 10K
C7337 68P
R7341 680
VR7326 500B
VR7328 500B
R7329 1000
R7316 47K
R7317 39K
STEREO
MPX
QR7314 MRN1402 (STEREO : ON)
QR7312 MRN1402 (STEREO : ON)
5
6
7
8
9
10

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

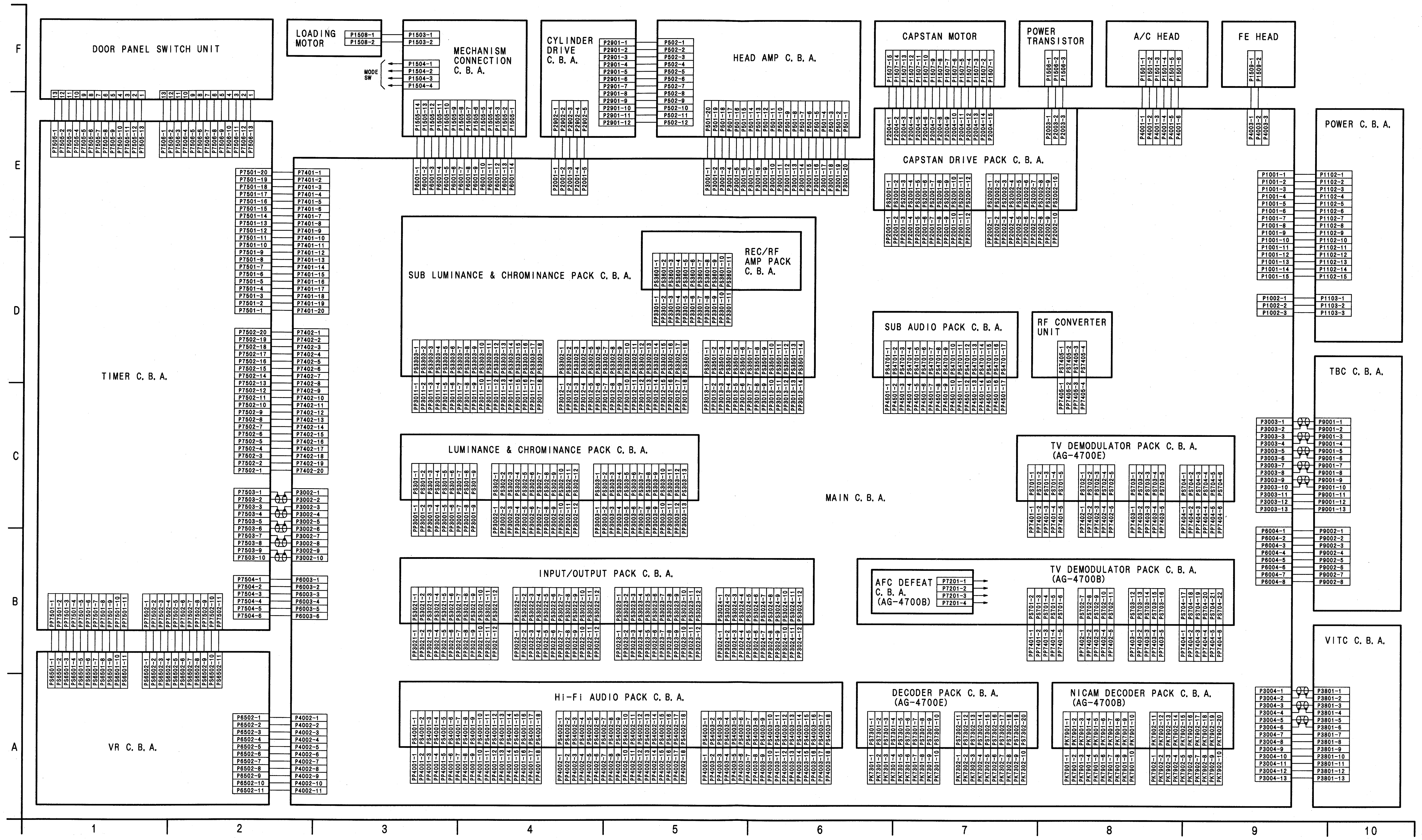
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

DECODER PACK C.B.A.		
Transistor	Q7301	B-2
	Q7304	B-2
	Q7305	C-2
	Q7306	A-1
	Q7307	A-1
Transistor & Resistor	QR7301	B-1
	QR7302	B-1
	QR7312	B-4
	QR7313	B-4
	QR7314	B-4
	QR7315	B-4
	QR7316	B-3
Integrated Circuit	IC7301	B-3
	IC7302	B-1
Test Point	TP7303	B-3
	TP7304	B-3
Adjustment	T7301	C-3
	T7302	A-2
	T7303	A-4
	T7304	C-1
	T7305	C-1
	VR7301	A-3
	VR7326	C-4
	VR7328	C-3
	VR7340	A-4
	VR7342	A-1
	VR7344	A-3
Connector	PS7301	A-1
	PS7302	A-3

ADDRESS INFORMATION


C
B
A
1
2
3
4
T7304
T7305
FM DET.
C7345
Q7305
D7304
PILOT FREQ.
T7301
VR7328
MPX
C7316
C7317
STEREO
VR7326
C7318
C7319
QR7314
QR7312
IC7302
QR7301
QR7302
Q7301
TP7304
TP7303
IC7301
X7301
X7302
X7303
X7304
X7305
Q7304
QR7316
QR7313
QR7315
Q7307
VR7342
NORMAL AUDIO
Q7306
D7303
VR7301
SEPARATION
T7302
T7303
VR7340
AUDIO (R)
VR7344
AUDIO(L)
PS7301
PS7302

4-33. INTERCONNECTION SCHEMATIC DIAGRAM


DOOR PANEL SWITCH UNIT
LOADING MOTOR
MECHANISM CONNECTION C. B. A.
MODE SW
CYLINDER DRIVE C. B. A.
HEAD AMP C. B. A.
CAPSTAN MOTOR
POWER TRANSISTOR
A/C HEAD
FE HEAD
CAPSTAN DRIVE PACK C. B. A.
POWER C. B. A.
SUB LUMINANCE & CHROMINANCE PACK C. B. A.
REC/RF AMP PACK C. B. A.
SUB AUDIO PACK C. B. A.
RF CONVERTER UNIT
TIMER C. B. A.
TBC C. B. A.
LUMINANCE & CHROMINANCE PACK C. B. A.
TV DEMODULATOR PACK C. B. A. (AG-4700E)
MAIN C. B. A.
INPUT/OUTPUT PACK C. B. A.
AFC DEFEAT C. B. A. (AG-4700B)
TV DEMODULATOR PACK C. B. A. (AG-4700B)
VITC C. B. A.
HI-Fi AUDIO PACK C. B. A.
DECODER PACK C. B. A. (AG-4700E)
NICAM DECODER PACK C. B. A. (AG-4700B)
VR C. B. A.
F
E
D
C
B
A
1
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3
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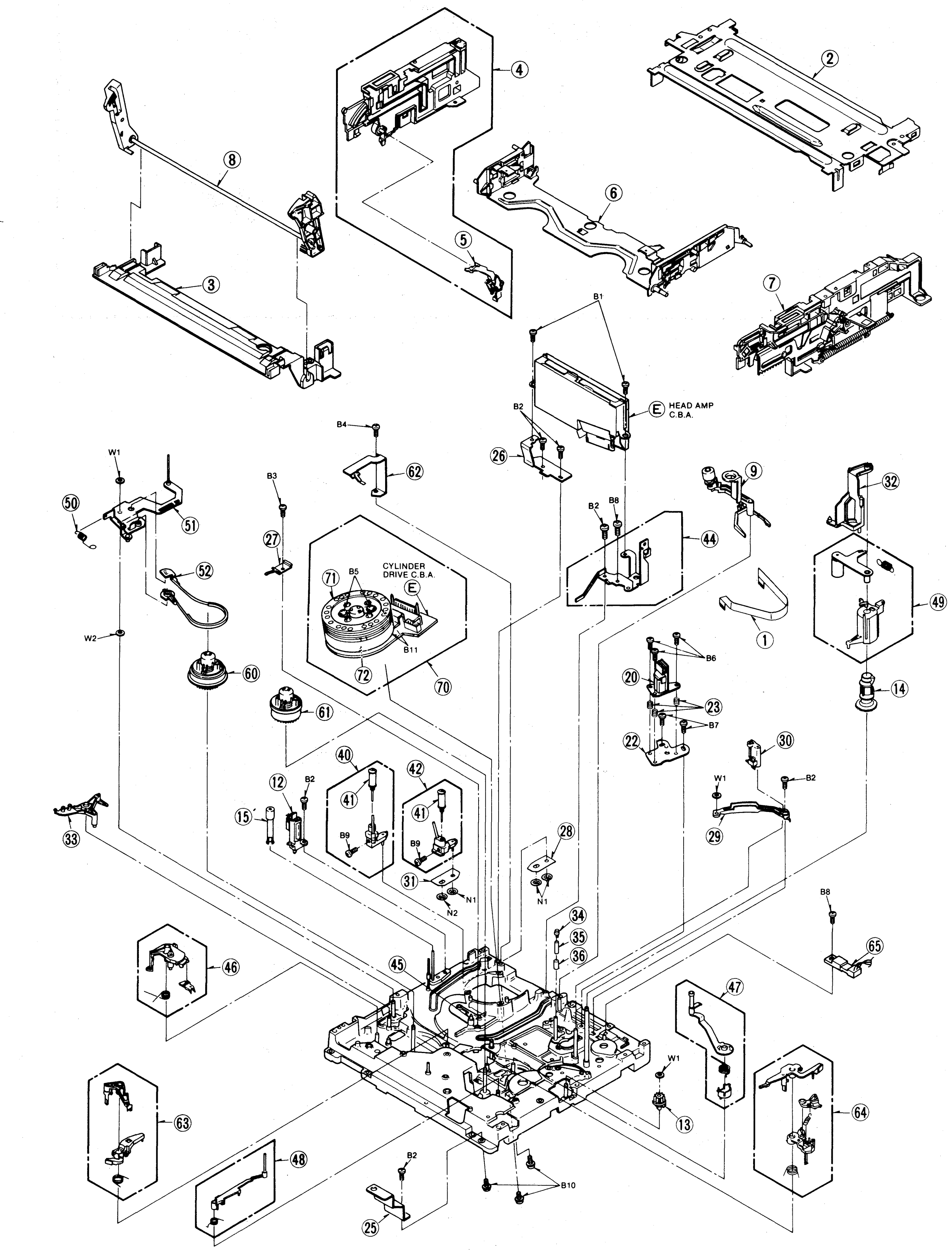
5
6
7
8
9
10

SECTION 5
EXPLODED VIEWS & PARTS LIST

5-1. EXPLODED VIEW & MECHANICAL REPLACEMENT PARTS LIST

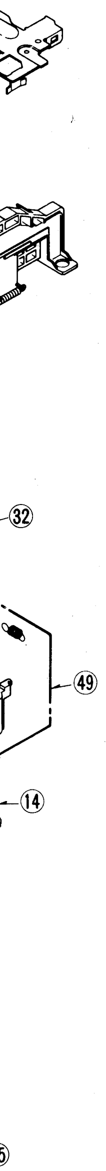
❶ *Chassis Parts Section (1)*



Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
1(1)		VWJ0617	FLEXIBLE CABLE (6P)	1	P4003-P1501
2(1)		VMA8644	TOP PLATE	1	
3(1)		VMA8787	CASSETTE GUIDE	1	
4(1)		VXA4660	SIDE PLATE (L) UNIT	1	
5(1)		VXL2250	OPENER LEVER UNIT	1	
6(1)		VXA4661	CASSETTE HOLDER PLATE UNIT	1	
7(1)		VXA4806	SIDE PLATE (R) UNIT	1	
8(1)		VXP1339	MAIN SHAFT UNIT	1	
9(1)		VXL2380	CLEANER ARM UNIT	1	
12(1)		VBS0050	FE HEAD	1	
13(1)		VDG0871	CARRIAGE CONNECTION GEAR	1	
14(1)		VDG0886	PINCH CAM GEAR	1	
15(1)		VXP1402	IMPEDANCE ROLLER UNIT	1	
20(1)		VED0205	A/C HEAD (1) UNIT	1	
22(1)		VMA8624	A/C HEAD BASE	1	
23(1)		VMB2515	A/C HEAD SPRING	3	
25(1)		VMA8761	MOUNT ANGLE	1	
26(1)		VMA8763	HEAD AMP MOUNT ANGLE (L)	1	
27(1)		VMC0917	EARTH SPRING	1	
28(1)		VMA8874	INCLIND BASE HOLDER (S)	1	
29(1)		VMD2078	P5 STOPPER BASE	1	
30(1)		VXA4927	P5 POST STOPPER	1	
31(1)		VMA8873	INCLIND BASE HOLDER (T)	1	
32(1)		VMD2101	OPENER PIECE	1	
33(1)		VML2776	TENSION SPRING ARM	1	
34(1)		VMX1544	P4 UPPER LIMITER	1	
35(1)		VMX2175	P4 SLEEVE	1	
36(1)		VMX2176	P4 LOWER LIMITER	1	
40(1)		VXA5245KIT	INCLINED BASE (S) UNIT	1	OR VXA4982KIT
41(1)		VXP1415	ROLLER POST	2	
42(1)		VXA5247KIT	INCLINED BASE (T) UNIT	1	OR VXA4984KIT
44(1)		VXA4974	HEAD AMP MOUNT ANGLE (R) U.	1	
45(1)		VMS5383	CASSETTE POSITION FIXTURE	1	
46(1)		VXL2310	REVIEW ARM UNIT	1	
47(1)		VXL2306	P5 ARM UNIT	1	
48(1)		VXL2243	TAKE UP TENSION REGULATOR ARM UNIT	1	
49(1)		VXL2246	PINCH ARM UNIT	1	
50(1)		VMB2434	TENSION SPRING	1	
51(1)		VXL2309	TENSION ARM (1) UNIT	1	
52(1)		VXZ0310	TENSION BAND UNIT	1	
60(1)		VXR0221	SUPPLY REEL TABLE UNIT	1	
61(1)		VXR0222	TAKE UP REEL TABLE UNIT	1	
62(1)		VXS0113	EARTH PLATE	1	
63(1)		VXZ0312	SUPPLY BRAKE ARM UNIT	1	
64(1)		VXZ0313	TAKE UP BRAKE ARM UNIT	1	
65(1)		2SW941PSW	POWER TRANSISTOR	1	
70(1)		VEG1133	CYLINDER UNIT	1	
71(1)		VEH0651	UPPER CYLINDER UNIT	1	
72(1)		VSC3940	CYLINDER SHIELD PLATE	1	
B1(1)		VHD0773	SCREW	2	
B2(1)		XTV26+6F	SCREW	6	
B3(1)		XTV26+4F	SCREW	1	
B4(1)		XTN3+6FFZ	SCREW	1	
B5(1)		VHD0553	SCREW	2	
B6(1)		VHD0762	SCREW	3	
B7(1)		XTV26+6FZ	SCREW	2	
B8(1)		XTV26+8F	SCREW	2	
B9(1)		XQN2+AJ4	SCREW	2	
B10(1)		VHD0342	SCREW	3	
B11(1)		XYNV0029	SCREW	2	
N1(1)		VHN0192	NUT	3	
N2(1)		VHN0193	NUT	1	
W1(1)		VMX2208	WASHER	3	
W2(1)		XWGV26D5G	WASHER	1	

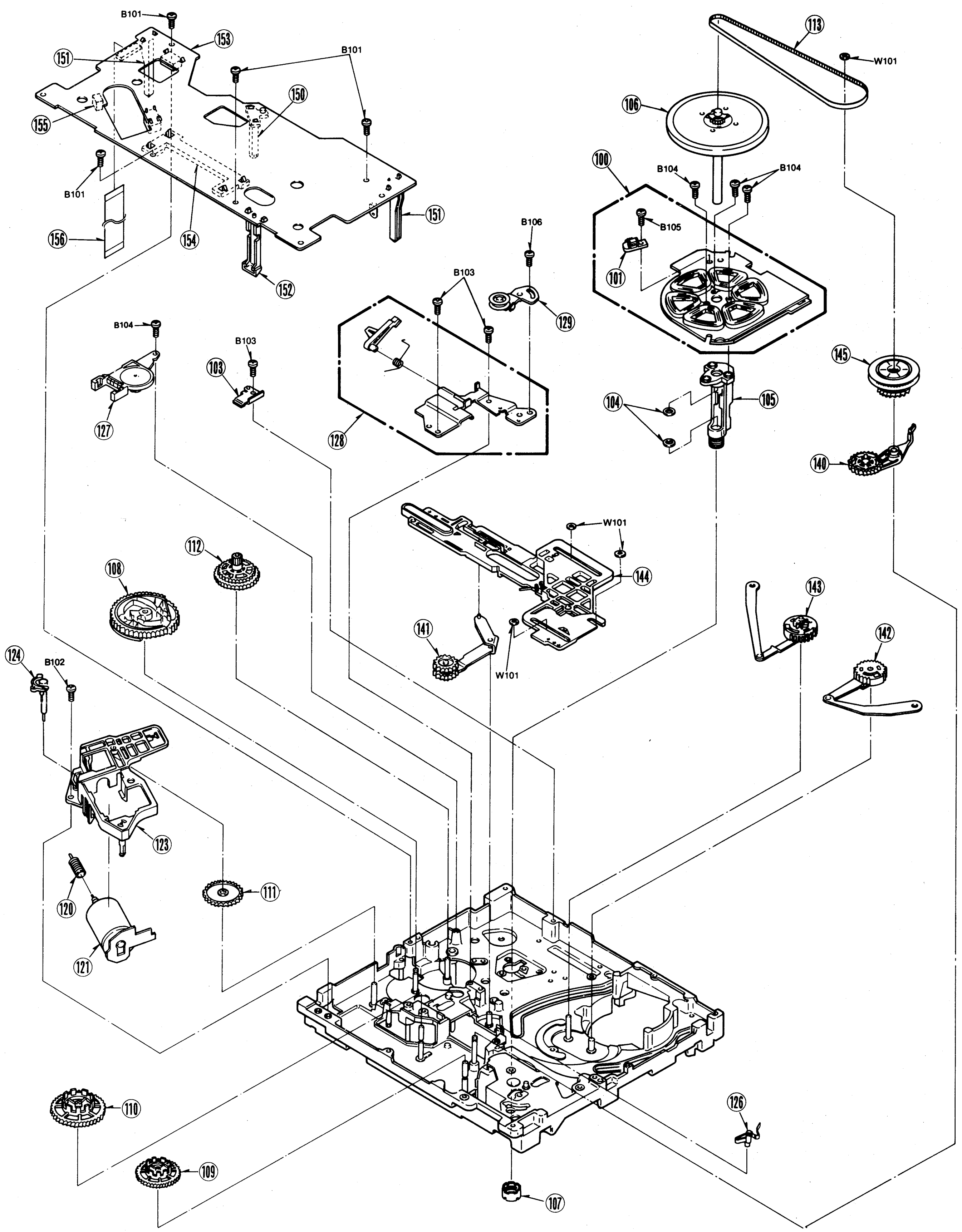
Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
100(2)		VEK5927	STATOR UNIT	1	
101(2)		VBK0061	FG HEAD	1	
103(2)		VMA8930	ROTOR STOPPER	1	
104(2)		VMX1927	OIL SEAL	2	
105(2)		VXD0140	HOUSING UNIT	1	
106(2)		VXP1350	ROTOR UNIT	1	
107(2)		VXQ0297	THRUST SCREW UNIT	1	
108(2)		VDG0913	MAIN CAM GEAR	1	
109(2)		VDG0956	SUPPLY REEL GEAR	1	
110(2)		VDG0957	TAKE UP REEL GEAR	1	
111(2)		VDG0868	WORM WHEEL GEAR	1	
112(2)		VDG0885	SUB CAM GEAR	1	
113(2)		VDV0235	TIMING BELT	1	
120(2)		VDG0866	WORM GEAR	1	
121(2)		VEM0427	LOADING MOTOR (1) UNIT	1	
123(2)		VMD1942	MOTOR BRACKET	1	
124(2)		VMD2153	S-VHS SW ACTUATER	1	
126(2)		VML2725	IDLER CONTROL LEVER	1	
127(2)		VSS0365	MODE SW	1	
128(2)		VXA5138	SS BRAKE BASE UNIT	1	
129(2)		VXA4799	TENSION ROLLER UNIT	1	
140(2)		VXL2378	IDLER ARM UNIT	1	
141(2)		VXL2372	DIRECT LEVER UNIT	1	
142(2)		VXL2299	SUPPLY LOADING ARM UNIT	1	
143(2)		VXL2300	TAKE UP LOADING ARM UNIT	1	
144(2)		VXL2307	MAIN LEVER UNIT	1	
145(2)		VXP1409	CENTRE CLUTCH	1	
150(2)		VMD1926	LED HOLDER	1	
151(2)		VMD1927	PHOTO TRANSISTOR HOLDER	2	
152(2)		VES0695	SAFETY TAB SW	1	
153(2)		VJB00T87	MECHANISM CONNECTION C.B.	1	ELECTRICAL PARTS ON THE C.B.A. ARE LISTED ON ELECTRICAL PARTS LIST.
154(2)		VMD2029	REEL SHAFT GUIDE	1	
155(2)		VST0176	S-VHS CASSETTE SW	1	
156(2)		VWJ0777	FLEXIBLE CABLE (14P)	1	(P6001-P1505)
B101(2)		VHD0772	SCREW	4	
B102(2)		XTV26+8F	SCREW	1	
B103(2)		XTV26+6F	SCREW	3	
B104(2)		VHD0753	SCREW	4	
B105(2)		VHD0754	SCREW	1	
B106(2)		XSB26+4FZ	SCREW	1	
W101(2)		VMX2208	WASHER	4	

IST

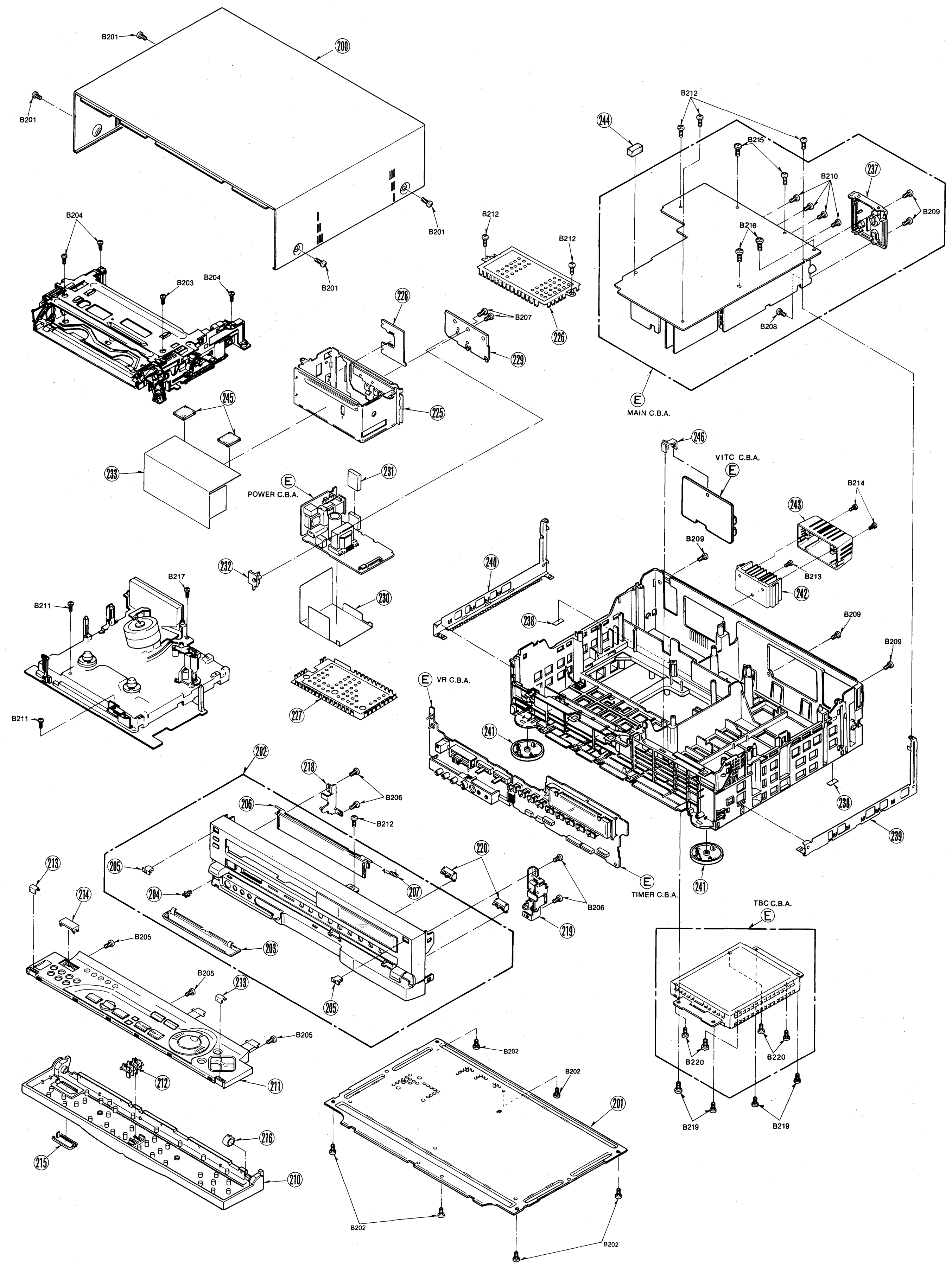


Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1(1)	VWJ0617	FLEXIBLE CABLE (6P)	1	P4003-P1501
2(1)	VMA8644	TOP PLATE	1	
3(1)	VMA8787	CASSETTE GUIDE	1	
4(1)	VXA4660	SIDE PLATE (L) UNIT	1	
5(1)	VXL2250	OPENER LEVER UNIT	1	
6(1)	VXA4661	CASSETTE HOLDER PLATE UNIT	1	
7(1)	VXA4806	SIDE PLATE (R) UNIT	1	
8(1)	VXP1339	MAIN SHAFT UNIT	1	
9(1)	VXL2380	CLEANER ARM UNIT	1	
12(1)	VBS0050	FE HEAD	1	
13(1)	VDG0871	CARRIAGE CONNECTION GEAR	1	
14(1)	VDG0886	PINCH CAM GEAR	1	
15(1)	VXP1402	IMPEDANCE ROLLER UNIT	1	
20(1)	VED0205	A/C HEAD (1) UNIT	1	
22(1)	VMA8624	A/C HEAD BASE	1	
23(1)	VMB2515	A/C HEAD SPRING	3	
25(1)	VMA8761	MOUNT ANGLE	1	
26(1)	VMA8763	HEAD AMP MOUNT ANGLE (L)	1	
27(1)	VMC0917	EARTH SPRING	1	
28(1)	VMA8874	INCLIND BASE HOLDER (S)	1	
29(1)	VMD2078	P5 STOPPER BASE	1	
30(1)	VXA4927	P5 POST STOPPER	1	
31(1)	VMA8873	INCLIND BASE HOLDER (T)	1	
32(1)	VMD2101	OPENER PIECE	1	
33(1)	VML2776	TENSION SPRING ARM	1	
34(1)	VMX1544	P4 UPPER LIMITER	1	
35(1)	VMX2175	P4 SLEEVE	1	
36(1)	VMX2176	P4 LOWER LIMITER	1	
40(1)	VXA5245KIT	INCLINED BASE (S) UNIT	1	OR VXA4982KIT
41(1)	VXP1415	ROLLER POST	2	
42(1)	VXA5247KIT	INCLINED BASE (T) UNIT	1	OR VXA4984KIT
44(1)	VXA4974	HEAD AMP MOUNT ANGLE (R) U.	1	
45(1)	VMS5383	CASSETTE POSITION FIXTURE	1	
46(1)	VXL2310	REVIEW ARM UNIT	1	
47(1)	VXL2306	P5 ARM UNIT	1	
48(1)	VXL2243	TAKE UP TENSION REGULATOR ARM UNIT	1	
49(1)	VXL2246	PINCH ARM UNIT	1	
50(1)	VMB2434	TENSION SPRING	1	
51(1)	VXL2309	TENSION ARM (1) UNIT	1	
52(1)	VXZ0310	TENSION BAND UNIT	1	
60(1)	VXR0221	SUPPLY REEL TABLE UNIT	1	
61(1)	VXR0222	TAKE UP REEL TABLE UNIT	1	
62(1)	VXS0113	EARTH PLATE	1	
63(1)	VXZ0312	SUPPLY BRAKE ARM UNIT	1	
64(1)	VXZ0313	TAKE UP BRAKE ARM UNIT	1	
65(1)	2SW941PSW	POWER TRANSISTOR	1	
70(1)	VEG1133	CYLINDER UNIT	1	
71(1)	VEH0651	UPPER CYLINDER UNIT	1	
72(1)	VSC3940	CYLINDER SHIELD PLATE	1	
B1(1)	VHD0773	SCREW	2	
B2(1)	XTV26+6F	SCREW	6	
B3(1)	XTV26+4F	SCREW	1	
B4(1)	XTN3+6FFZ	SCREW	1	
B5(1)	VHD0553	SCREW	2	
B6(1)	VHD0762	SCREW	3	
B7(1)	XTV26+6FZ	SCREW	2	
B8(1)	XTV26+8F	SCREW	2	
B9(1)	XQN2+AJ4	SCREW	2	
B10(1)	VHD0342	SCREW	3	
B11(1)	XYNV0029	SCREW	2	
N1(1)	VHN0192	NUT	3	
N2(1)	VHN0193	NUT	1	
W1(1)	VMX2208	WASHER	3	
W2(1)	XWGV26D5G	WASHER	1	
100(2)	VEK5927	STATOR UNIT	1	
101(2)	VBK0061	FG HEAD	1	
103(2)	VMA8930	ROTOR STOPPER	1	
104(2)	VMX1927	OIL SEAL	2	
105(2)	VXD0140	HOUSING UNIT	1	
106(2)	VXP1350	ROTOR UNIT	1	
107(2)	VXQ0297	THRUST SCREW UNIT	1	
108(2)	VDG0913	MAIN CAM GEAR	1	
109(2)	VDG0956	SUPPLY REEL GEAR	1	
110(2)	VDG0957	TAKE UP REEL GEAR	1	
111(2)	VDG0868	WORM WHEEL GEAR	1	
112(2)	VDG0885	SUB CAM GEAR	1	
113(2)	VDV0235	TIMING BELT	1	
120(2)	VDG0866	WORM GEAR	1	
121(2)	VEM0427	LOADING MOTOR (1) UNIT	1	
123(2)	VMD1942	MOTOR BRACKET	1	
124(2)	VMD2153	S-VHS SW ACTUATER	1	
126(2)	VML2725	IDLER CONTROL LEVER	1	
127(2)	VSS0365	MODE SW	1	
128(2)	VXA5138	SS BRAKE BASE UNIT	1	
129(2)	VXA4799	TENSION ROLLER UNIT	1	
140(2)	VXL2378	IDLER ARM UNIT	1	
141(2)	VXL2372	DIRECT LEVER UNIT	1	
142(2)	VXL2299	SUPPLY LOADING ARM UNIT	1	
143(2)	VXL2300	TAKE UP LOADING ARM UNIT	1	
144(2)	VXL2307	MAIN LEVER UNIT	1	
145(2)	VXP1409	CENTRE CLUTCH	1	
150(2)	VMD1926	LED HOLDER	1	
151(2)	VMD1927	PHOTO TRANSISTOR HOLDER	2	
152(2)	VES0695	SAFETY TAB SW	1	
153(2)	VJB00T87	MECHANISM CONNECTION C.B.	1	ELECTRICAL PARTS ON THE C.B.A. ARE LISTED ON ELECTRICAL PARTS LIST.
154(2)	VMD2029	REEL SHAFT GUIDE	1	
155(2)	VST0176	S-VHS CASSETTE SW	1	
156(2)	VWJ0777	FLEXIBLE CABLE (14P)	1	(P6001-P1505)
B101(2)	VHD0772	SCREW	4	
B102(2)	XTV26+8F	SCREW	1	
B103(2)	XTV26+6F	SCREW	3	
B104(2)	VHD0753	SCREW	4	
B105(2)	VHD0754	SCREW	1	
B106(2)	XSB26+4FZ	SCREW	1	
W101(2)	VMX2208	WASHER	4	

❷ *Chassis Parts Section (2)*



❸ Casing Parts Section


B201
200
B201
B201
B201
B204
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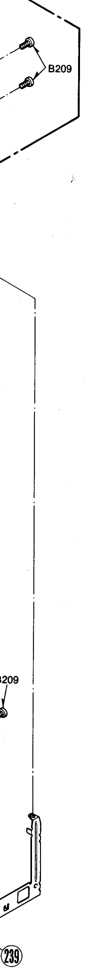
244
B212
B215
B210
237
B209
B216
B208
B212
B212
226
228
B207
229
225
245
233
E
MAIN C.B.A.
E
POWER C.B.A.
231
246
VITC C.B.A.
E
B214
243
B209
B213
242
232
230
240
B217
B211
B211
238
B209
B209
227
E VR C.B.A.
241
202
218
B206
206
B212
205
220
207
204
213
214
203
B205
B205
213
205
B205
212
211
216
215
210
219
B206
E
TIMER C.B.A.
241
239
238
TBC C.B.A.
E
B220
B220
B219
B219
B202
B202
201
B202
B202

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
200(3)	VGM1126	TOP PANEL	1	
201(3)	VKU0387	BOTTOM PLATE	1	
202(3)	VYP5771	FRONT PANEL (1) UNIT	1	AG-4700E
202(3)	VYP5772	FRONT PANEL (1) UNIT	1	AG-4700B
203(3)	VYF2145	SUB DOOR UNIT	1	AG-4700E
203(3)	VYF2149	SUB DOOR UNIT	1	AG-4700B
204(3)	VGQ0550	DOOR LOCK PIECE	1	
205(3)	VGQ2216	DOOR MAGNET	2	
206(3)	VKF2118	BLINDER PANEL	1	
207(3)	VMB2521	BLINDER SPRING	1	
210(3)	VYC0652	DOOR PANEL (1) UNIT	1	
211(3)	ESU19555G	DOOR PANEL SW UNIT	1	AG-4700E
211(3)	ESU19555J	DOOR PANEL SW UNIT	1	AG-4700B
212(3)	VGL0578	DOOR PANEL LIGHT	1	
213(3)	VMP4182	MAGNET ANGLE	2	
214(3)	VKW1333	IR WINDOW (INSIDE)	1	
215(3)	VKW1827	IR WINDOW (OUTSIDE)	1	
216(3)	VDG0954	DOOR GEAR	1	
218(3)	VXA5132	DOOR ANGLE (L) UNIT	1	
219(3)	VXA5130	DOOR ANGLE (R) UNIT	1	
220(3)	VGQ2807	FLEXIBLE CABLE HOLDER	2	
225(3)	VXA5129	POWER SHIELD PLATE (MAIN)U.	1	
226(3)	VSC2621	POWER SHIELD PLATE (TOP)	1	
227(3)	VSC2622	POWER SHIELD PLATE (BOTTOM)	1	
228(3)	VMP4183	INLET ANGLE	1	
229(3)	VSC3938	HEAT SINK (P)	1	
230(3)	VMZ2207	POWER BARRIER	1	<!>
231(3)	VMZ2208	INSULATION CAP	1	<!>
232(3)	VGQ3401	IC HOLDER	1	
233(3)	VMZ2257	SHIELD BARRIER	1	
237(3)	VJH0683	RF ANT TERMINAL PLATE	1	
238(3)	VKA0122	FOOT	2	
239(3)	VMP4448	SIDE ANGLE (R)	1	
240(3)	VMP4449	SIDE ANGLE (L)	1	
241(3)	VKA0165	LEG	2	
242(3)	VSC2623	HEAT SINK (O)	1	
243(3)	VKF1150	HEAT SINK COVER	1	
244(3)	VMT0199	C.B.A. SPACER	1	
245(3)	VMT0547	POWER CUSHION	2	
246(3)	VGQ1362	VITC HOLDER	1	
B201(3)	XTW3+10TFZ	SCREW	4	
B202(3)	VHD0059	SCREW	8	
B203(3)	XTV26+10F	SCREW	1	
B204(3)	XTV26+8FR	SCREW	3	
B205(3)	XTN26+8GFZ	SCREW	3	
B206(3)	XTV3+8G	SCREW	4	
B207(3)	XTS3+8J	SCREW	2	
B208(3)	XTV3+6F	SCREW	1	
B209(3)	XTV3+12JFZ	SCREW	5	
B210(3)	XTV3+8GFZ	SCREW	4	
B211(3)	VHD0168	SCREW	2	
B212(3)	VHD0773	SCREW	6	
B213(3)	XYC3+FF12FR	SCREW	1	
B214(3)	XTV3+14FZ	SCREW	2	
B215(3)	XTV3+10J	SCREW	2	
B216(3)	XTV3+8J	SCREW	2	
B217(3)	VHD0839	SCREW	1	
B219(3)	XTV3+10GR	SCREW	4	
B220(3)	XTN3+6F	SCREW	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
300(4)	VQT6023	OPERATING INSTRUCTIONS	1	<!>AG-4700E
		(ENGLISH/GERMAN)		
300(4)	VQT6024	OPERATING INSTRUCTIONS	1	<!>AG-4700E
		(FRENCH/ITALIAN)		
300(4)	VQT6025	OPERATING INSTRUCTIONS	1	<!>AG-4700E
		(SPANISH)		
300(4)	VQT6026	OPERATING INSTRUCTIONS	1	<!>AG-4700B
		(ENGLISH)		
304(4)	VJA0665	AC CORD	1	<!>AG-4700E
304(4)	VJA0733	AC CORD	1	<!>AG-4700B
305(4)	VJA0787	EDIT 5P CABLE	1	
308(4)	VEQ1681	REMOTE CONTROLLER	1	
312(4)	VPK0834	ACCESSORIES PACKING	1	
314(4)	VPN3779	UPPER PAD	1	
315(4)	VPN3763	CUSHION (R)	1	
316(4)	VPN3764	CUSHION (L)	1	
317(4)	VPG7853	PACKING	1	AG-4700E
317(4)	VPG7854	PACKING	1	AG-4700B
318(4)	VFA0151	AV ADAPTOR (IN)	1	
319(4)	VFA0163	AV ADAPTOR (OUT)	1	
		SERVICE FIXTURES & TOOLS		
	VFJ8125H3F	VHS ALIGNMENT TAPE(PAL)	1	
	VFK0335	RETAINING RING REMOVER	1	
		(3mm/4mm)		
	VFK0329	POST ADJUSTMENT SCREWDRIVER	1	
	VFK0326	HEX WRENCH SET	1	
	VFK0132	BACK TENSION METER	1	
	VFK27	HEAD CLEANING STICK	1	
	MOR265	MORLYTONE GREASE	1	
	VFK0341	UPPER CYLINDER REMOVER	1	
	VFK0680	WHITE GREASE	1	
	VFK0851	CENTRE FIXING TOOL	1	
	VFK0330	FINE ADJUSTMENT GEAR DRIVER	1	
	VFK0678	18P EXTENSION CABLE	2	
	VFK0764	10P EXTENSION CABLE	1	
	VFK0918	17P EXTENSION CABLE	1	
	VFK0937	9P EXTENSION CABLE	1	
	VFK0938	12P EXTENSION CABLE	2	
	VFK0939	13P EXTENSION CABLE	1	
	VFK0940	14P EXTENSION CABLE	1	

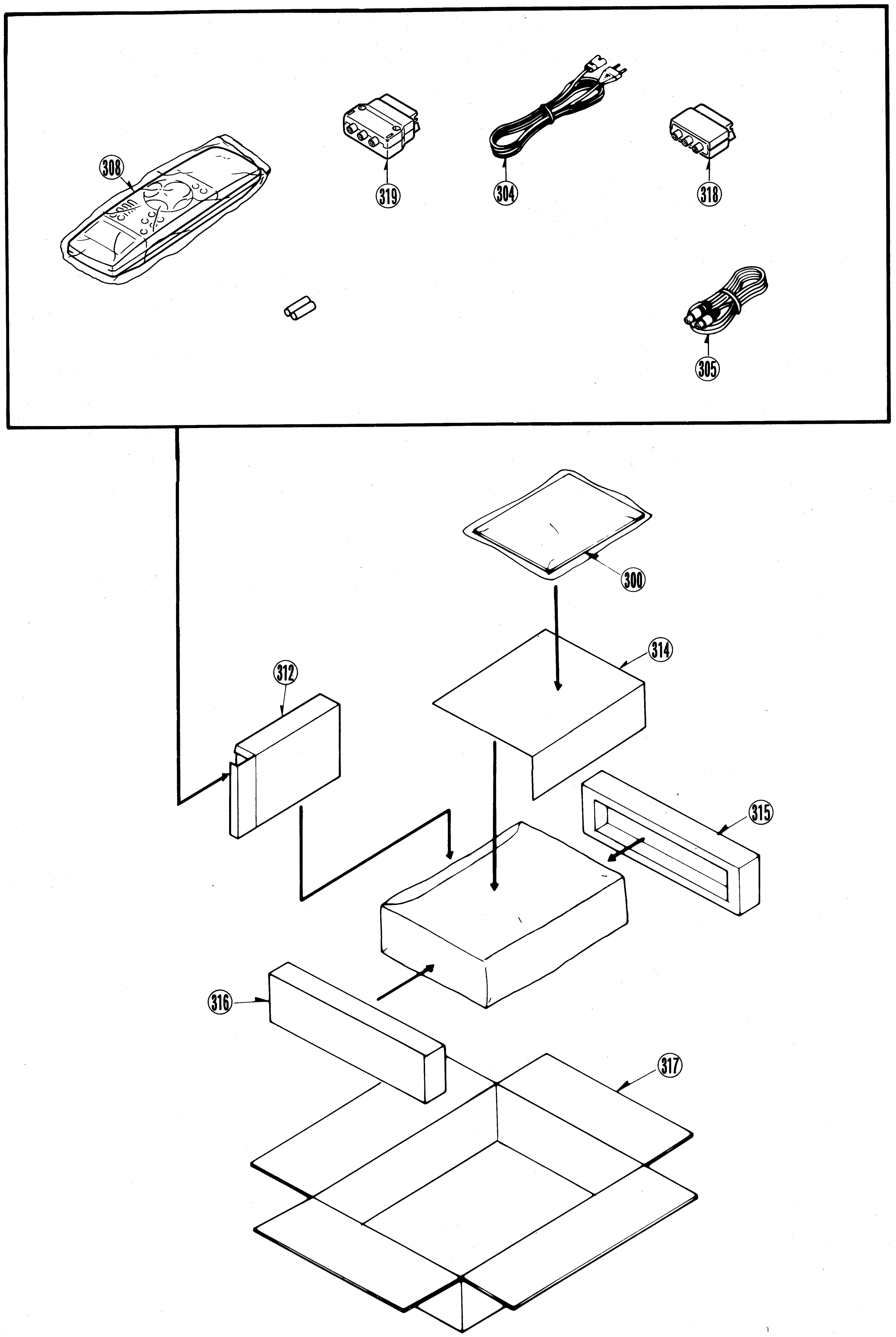
❹ Pac



Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
200(3)	VGM1126	TOP PANEL	1	
201(3)	VKU0387	BOTTOM PLATE	1	
202(3)	VYP5771	FRONT PANEL (1) UNIT	1	AG-4700E
202(3)	VYP5772	FRONT PANEL (1) UNIT	1	AG-4700B
203(3)	VYF2145	SUB DOOR UNIT	1	AG-4700E
203(3)	VYF2149	SUB DOOR UNIT	1	AG-4700B
204(3)	VGQ0550	DOOR LOCK PIECE	1	
205(3)	VGQ2216	DOOR MAGNET	2	
206(3)	VKF2118	BLINDER PANEL	1	
207(3)	VMB2521	BLINDER SPRING	1	
210(3)	VYC0652	DOOR PANEL (1) UNIT	1	
211(3)	ESU19555G	DOOR PANEL SW UNIT	1	AG-4700E
211(3)	ESU19555J	DOOR PANEL SW UNIT	1	AG-4700B
212(3)	VGL0578	DOOR PANEL LIGHT	1	
213(3)	VMP4182	MAGNET ANGLE	2	
214(3)	VKW1333	IR WINDOW (INSIDE)	1	
215(3)	VKW1827	IR WINDOW (OUTSIDE)	1	
216(3)	VDG0954	DOOR GEAR	1	
218(3)	VXA5132	DOOR ANGLE (L) UNIT	1	
219(3)	VXA5130	DOOR ANGLE (R) UNIT	1	
220(3)	VGQ2807	FLEXIBLE CABLE HOLDER	2	
225(3)	VXA5129	POWER SHIELD PLATE (MAIN)U.	1	
226(3)	VSC2621	POWER SHIELD PLATE (TOP)	1	
227(3)	VSC2622	POWER SHIELD PLATE (BOTTOM)	1	
228(3)	VMP4183	INLET ANGLE	1	
229(3)	VSC3938	HEAT SINK (P)	1	
230(3)	VMZ2207	POWER BARRIER	1	<!>
231(3)	VMZ2208	INSULATION CAP	1	<!>
232(3)	VGQ3401	IC HOLDER	1	
233(3)	VMZ2257	SHIELD BARRIER	1	
237(3)	VJH0683	RF ANT TERMINAL PLATE	1	
238(3)	VKA0122	FOOT	2	
239(3)	VMP4448	SIDE ANGLE (R)	1	
240(3)	VMP4449	SIDE ANGLE (L)	1	
241(3)	VKA0165	LEG	2	
242(3)	VSC2623	HEAT SINK (O)	1	
243(3)	VKF1150	HEAT SINK COVER	1	
244(3)	VMT0199	C.B.A. SPACER	1	
245(3)	VMT0547	POWER CUSHION	2	
246(3)	VGQ1362	VITC HOLDER	1	
B201(3)	XTW3+10TFZ	SCREW	4	
B202(3)	VHD0059	SCREW	8	
B203(3)	XTV26+10F	SCREW	1	
B204(3)	XTV26+8FR	SCREW	3	
B205(3)	XTN26+8GFZ	SCREW	3	
B206(3)	XTV3+8G	SCREW	4	
B207(3)	XTS3+8J	SCREW	2	
B208(3)	XTV3+6F	SCREW	1	
B209(3)	XTV3+12JFZ	SCREW	5	
B210(3)	XTV3+8GFZ	SCREW	4	
B211(3)	VHD0168	SCREW	2	
B212(3)	VHD0773	SCREW	6	
B213(3)	XYC3+FF12FR	SCREW	1	
B214(3)	XTV3+14FZ	SCREW	2	
B215(3)	XTV3+10J	SCREW	2	
B216(3)	XTV3+8J	SCREW	2	
B217(3)	VHD0839	SCREW	1	
B219(3)	XTV3+10GR	SCREW	4	
B220(3)	XTN3+6F	SCREW	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
300(4)	VQT6023	OPERATING INSTRUCTIONS	1	<!>AG-4700E
		(ENGLISH/GERMAN)		
300(4)	VQT6024	OPERATING INSTRUCTIONS	1	<!>AG-4700E
		(FRENCH/ITALIAN)		
300(4)	VQT6025	OPERATING INSTRUCTIONS	1	<!>AG-4700E
		(SPANISH)		
300(4)	VQT6026	OPERATING INSTRUCTIONS	1	<!>AG-4700B
		(ENGLISH)		
304(4)	VJA0665	AC CORD	1	<!>AG-4700E
304(4)	VJA0733	AC CORD	1	<!>AG-4700B
305(4)	VJA0787	EDIT 5P CABLE	1	
308(4)	VEQ1681	REMOTE CONTROLLER	1	
312(4)	VPK0834	ACCESSORIES PACKING	1	
314(4)	VPN3779	UPPER PAD	1	
315(4)	VPN3763	CUSHION (R)	1	
316(4)	VPN3764	CUSHION (L)	1	
317(4)	VPG7853	PACKING	1	AG-4700E
317(4)	VPG7854	PACKING	1	AG-4700B
318(4)	VFA0151	AV ADAPTOR (IN)	1	
319(4)	VFA0163	AV ADAPTOR (OUT)	1	
		SERVICE FIXTURES & TOOLS		
	VFJ8125H3F	VHS ALIGNMENT TAPE(PAL)	1	
	VFK0335	RETAINING RING REMOVER	1	
		(3mm/4mm)		
	VFK0329	POST ADJUSTMENT SCREWDRIVER	1	
	VFK0326	HEX WRENCH SET	1	
	VFK0132	BACK TENSION METER	1	
	VFK27	HEAD CLEANING STICK	1	
	MOR265	MORLYTONE GREASE	1	
	VFK0341	UPPER CYLINDER REMOVER	1	
	VFK0680	WHITE GREASE	1	
	VFK0851	CENTRE FIXING TOOL	1	
	VFK0330	FINE ADJUSTMENT GEAR DRIVER	1	
	VFK0678	18P EXTENSION CABLE	2	
	VFK0764	10P EXTENSION CABLE	1	
	VFK0918	17P EXTENSION CABLE	1	
	VFK0937	9P EXTENSION CABLE	1	
	VFK0938	12P EXTENSION CABLE	2	
	VFK0939	13P EXTENSION CABLE	1	
	VFK0940	14P EXTENSION CABLE	1	

④ Packing Parts Section



5-2. ELECTRICAL REPLACEMENT PARTS LIST

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP03A37S	P.C.BOARD W/COMPONENT	1	(RTL)<R>AG-4700E
		MAIN		
	VEP07749A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		TV DEMODULATOR		FOR VEP03A37S
	VEP02412B	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		CAP DRIVE		FOR VEP03A37S
	VEP03A61A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		Y/C		FOR VEP03A37S
	VEP03A62A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		SUB Y/C		FOR VEP03A37S
	VEP03A90A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		REC/RF		FOR VEP03A37S
	VEP03A72A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		INPUT/OUTPUT		FOR VEP03A37S
	VEP04417B	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		SUB AUDIO		FOR VEP03A37S
	VEP04447E	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		FM AUDIO		FOR VEP03A37S
	VEP07671A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		DECORDER		FOR VEP03A37S
	VEP03A37T	P.C.BOARD W/COMPONENT	1	(RTL)<R>AG-4700B
		MAIN		
	VEP07680K	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		TV DEMODULATOR		FOR VEP03A37T
	VEP02412B	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		CAP DRIVE		FOR VEP03A37T
	VEP03A61E	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		Y/C		FOR VEP03A37T
	VEP03A62C	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		SUB Y/C		FOR VEP03A37T
	VEP03A90A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		REC/RF		FOR VEP03A37T
	VEP03A72D	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		INPUT/OUTPUT		FOR VEP03A37T
	VEP04417C	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		SUB AUDIO		FOR VEP03A37T
	VEP04447E	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		FM AUDIO		FOR VEP03A37T
	VEP07675A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		DECORDER		FOR VEP03A37T
	VEP03A53A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		TBC		
	VEP03A63A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		VITC		
	VEP05176G	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		HEAD AMP		
	VEP06926C	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		VR		
	VEP07739G	P.C.BOARD W/COMPONENT	1	(RTL)<R>AG-4700E
		TIMER		
	VEP07739Q	P.C.BOARD W/COMPONENT	1	(RTL)<R>AG-4700B
		TIMER		
	VEP01558C	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		POWER		
	VEP00T87A	P.C.BOARD W/COMPONENT	1	(RTL)<R>
		MECHANISM CONNECTION		
F1101	XBA2C16TH15	FUSE	1	<!>

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP03A37S	P.C.BOARD W/COMPONENT		AG-4700E
		MAIN		
	VEP07749A	P.C.BOARD W/COMPONENT		ON VEP03A37S
		TV DEMODULATOR		
	VEP02412B	P.C.BOARD W/COMPONENT		ON VEP03A37S
		CAP DRIVE		
	VEP03A61A	P.C.BOARD W/COMPONENT		ON VEP03A37S
		Y/C		
	VEP03A62A	P.C.BOARD W/COMPONENT		ON VEP03A37S
		SUB Y/C		
	VEP03A90A	P.C.BOARD W/COMPONENT		ON VEP03A37S
		REC/RF		
	VEP03A72A	P.C.BOARD W/COMPONENT		ON VEP03A37S
		INPUT/OUTPUT		
	VEP04417B	P.C.BOARD W/COMPONENT		ON VEP03A37S
		SUB AUDIO		
	VEP04447E	P.C.BOARD W/COMPONENT		ON VEP03A37S
		FM AUDIO		
	VEP07671A	P.C.BOARD W/COMPONENT		ON VEP03A37S
		DECORDER		
		CAPACITORS		
C301	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C303	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C305	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C306	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C307	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C308	ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C309	ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C310	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C311	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C312	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C313	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C314	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C315,16	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C317	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C318	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C319	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C321,22	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	2	
C324	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C325,26	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C329	ECQV1H334JM	P.CAPACITOR 50V 0.33U	1	
C331	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C332,33	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C334	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C335	ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C336	ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C337	ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C338	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C339	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C340	ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C341	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C342	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C343	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C344	ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C345,46	ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C348	ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C349	ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C350	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C701	ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C702	ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C703	ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C707	ECEA1HK0R1	E.CAPACITOR 50V 0.1U	1	
C708	ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C710	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C717-20	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C721	ECEA1HKR27K	E.CAPACITOR 50V 0.27U	1	
C722	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C725	ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C727		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C728		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C731		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C734		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C739		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C740		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C741		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C742		ECUM1H030CCN	C.CAPACITOR CH 50V 3P	1	
C743		ECUM1H270RSN	C.CAPACITOR CH 50V 27P	1	
C744		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C745		ECUM1H680JPN	C.CAPACITOR CH 50V 68P	1	
C746		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C748		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C782		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C790		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C797,98		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C801		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C802		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C803		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C804		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C805,06		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C808		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C809		ECEA1HKA4R7	E.CAPACITOR 50V 4.7U	1	
C810		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C811-13		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C814		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C815		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C816		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C817		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C818		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C819		ECWM1H332JZ	F.CAPACITOR 50V 3300P	1	
C820		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C821-23		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C824		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C825-27		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C828,29		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	2	
C830		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C831		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C832		ECQV1H154JM	P.CAPACITOR 50V 0.15U	1	
C833		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C834		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C835		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C836		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C2001		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2003		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C2005		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2006		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C2007		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2009		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2010		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2501-04		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C2505		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2506		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2507		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2508-10		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	3	
C2511-14		VCUM1H333KBN	C.CAPACITOR 50V 0.033U	4	
C2515		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2516		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C2517		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2518		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2519,20		VCUM1H333KBN	C.CAPACITOR 50V 0.033U	2	
C2521		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2522		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	1	
C2523		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C2524,25		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C2526		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2527		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C2528		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	1	
C2529		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2530		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2531		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C2532		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2533		ECEA0JKA330	E.CAPACITOR 6.3V 33U	1	
C2534,35		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3001		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C3002		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3003-06		ECEA1HKA010	E.CAPACITOR 50V 1U	4	
C3007,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3009		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3010		ECA1AM331	E.CAPACITOR 10V 330U	1	
C3011		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3012		ECA1AM331	E.CAPACITOR 10V 330U	1	
C3013		ECA0JM331	E.CAPACITOR 6.3V 330U	1	
C3014		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3015		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3016		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3017-19		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C3022		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3023,24		ECEA1AKA330	E.CAPACITOR 10V 33U	2	
C3027,28		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3029		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3030		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3031		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3032		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3033		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3301		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3302		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3304-08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C3309		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3310		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3312-14		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3321		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3322		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3323		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3324		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3325		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3326		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3327,28		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3329		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3330		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3336		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3338		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3339		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3340		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3341		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3342		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3343		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3344		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3345		ECUM1H391JCN	C.CAPACITOR CH 50V 390P	1	
C3346		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3347		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3351,52		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	2	
C3353		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3354		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3372		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C3401		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3402		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C3403-07		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C3408,09		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3421		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C3422		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3423		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C3424		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3425		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3426		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3427		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3428		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3429		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3430		ECEA0JKA330	E.CAPACITOR 6.3V 33U	1	
C3431		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3443		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3444		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3445		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3447		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C3448		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3449		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3450,51		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C3452		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3472		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3473		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3474		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3475-77		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3501		ECA0JM471	E.CAPACITOR 6.3V 470U	1	
C3502		ECRHA030E54	TRIMMER CAPACITOR	1	
C3503		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3504		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C3505		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3506		ECWM1H682JZ	F.CAPACITOR 50V 6800P	1	
C3507		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3508		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C3509		ECUM1H122KBN	C.CAPACITOR CH 50V 1200P	1	
C3510		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3511		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3512		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3513		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C3514,15		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C3516,17		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C3518		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C3519		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C3520		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C3521		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3522		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C3523		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3524		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3525-27		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3528		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3529		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3530		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3531		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3532		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3533		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C3534		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3601		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3602		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3603		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3604		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3605		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3606		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3607		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3608		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3609		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C3610		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3611		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3613		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3614		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3901-05		ECEA1CKA100	E.CAPACITOR 16V 10U	5	
C3906		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3907		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3908		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3909,10		ECA1AM471	E.CAPACITOR 10V 470U	2	
C3911		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C3912		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C3913		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3914		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C3915		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3916		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3917		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3918		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3919		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3922		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3923		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3924		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3927		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C4001,02		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4003,04		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C4005		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4006		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C4007		ECEA1CPZ101	E.CAPACITOR 16V 100U	1	
C4008		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C4009		ECEA1CPZ101	E.CAPACITOR 16V 100U	1	
C4010		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C4011,12		ECUM1H122KBN	C.CAPACITOR CH 50V 1200P	2	
C4501		ECWM1H152JZ	F.CAPACITOR 50V 1500P	1	
C4502		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4503		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4504,05		ECEA1CU470	E.CAPACITOR 16V 47U	2	
C4506		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4507		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4508		ECEA1EBZ4R7	E.CAPACITOR 25V 4.7U	1	
C4509		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4510		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4511		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4512		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4513		ECUX1H681JV	C.CAPACITOR CH 50V 680P	1	
C4514		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4515		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C4517		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4518		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4521		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4522		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C4528		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4530		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C4533		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4537		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4538		ECEA1HUR47	E.CAPACITOR 50V 0.47U	1	
C4539		ECUM1C224ZFV	C.CAPACITOR CH 16V 0.22U	1	
C4541		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4545		ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4551		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4552		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4556		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4558		ECEA1EBZ4R7	E.CAPACITOR 25V 4.7U	1	
C4559		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4560		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4561		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4562		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4563		ECUX1H681JV	C.CAPACITOR CH 50V 680P	1	
C4564		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4565		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C4567		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4568		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4572		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C4576		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4583		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4585,86		ECEA1AU101	E.CAPACITOR 10V 100U	2	
C4591		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4592		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4593		ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C4594,95		ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C4596		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4597		ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C4598		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4604		ECUM1H182JN	C.CAPACITOR CH 50V 1800P	1	
C4606		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C4611		ECWM1H182JZ	F.CAPACITOR 50V 1800P	1	
C4613		ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C4616		ECUX1H102ZFV	C.CAPACITOR CH 50V 1000P	1	
C4617		ECEA10M22	E.CAPACITOR 10V 22U	1	
C4618		ECWM1H822JZ	F.CAPACITOR 50V 8200P	1	
C4621		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C4629		ECQB1H562JZ	P.CAPACITOR 50V 5600P	1	
C4636		ECUX1H471JV	C.CAPACITOR CH 50V 470P	1	
C4638		ECWM1H822JZ	F.CAPACITOR 50V 8200P	1	
C4652,53		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C4701		ECCD2H181J	C.CAPACITOR 500V 180P	1	
C4702		ECQP1222JZ	P.CAPACITOR 100V 2200P	1	
C4703		ECQB1H102JF	P.CAPACITOR 50V 1000P	1	
C4704		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4705		ECEA16M33	E.CAPACITOR 16V 33U	1	
C4706		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C4707		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4708		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4709		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C4710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4711,12		ECEA1AKA220	E.CAPACITOR 10V 22U	2	
C4713		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C4714		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C4901,02		ECWM1H103JZ	F.CAPACITOR 50V 0.01U	2	
C4903,04		ECWM1H332JZ	F.CAPACITOR 50V 3300P	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4905,06	VCEA1CAD100	E.CAPACITOR 16V 10U	2	
C4907,08	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4909,10	ECWM1H103JZ	F.CAPACITOR 50V 0.01U	2	
C4911,12	ECWM1H332JZ	F.CAPACITOR 50V 3300P	2	
C4913,14	VCEA1CAD100	E.CAPACITOR 16V 10U	2	
C4915,16	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4917,18	ECWM1H103JZ	F.CAPACITOR 50V 0.01U	2	
C4919,20	ECWM1H332JZ	F.CAPACITOR 50V 3300P	2	
C4923,24	VCEA0JAC101	E.CAPACITOR 6.3V 100U	2	
C6001	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6002	ECEA0JKA330	E.CAPACITOR 6.3V 33U	1	
C6003	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6004	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6005	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6006	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6007,08	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C6010	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C6011	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C6012	ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C6013	ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C6014	ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C6015	ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C6016,17	ECEA1HKN3R3	E.CAPACITOR 50V 3.3U	2	
C6018	ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C6019	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6020	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6021	ECEA16M10	E.CAPACITOR 16V 1U	1	
C6022	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C6023	ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C6024	ECEA1HKA4R7	E.CAPACITOR 50V 4.7U	1	
C6025	ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C6026	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C6027	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C6028	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C6029	ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C6030	EECS5R5T224N	E.CAPACITOR 5.5V 0.22U	1	
C6034	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6035	ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C6036	ECEA0JKA330	E.CAPACITOR 6.3V 33U	1	
C6037	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6038	ECEA1AKA470	E.CAPACITOR 10V 47U	1	
C6040	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6041	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C6042	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6043	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6045	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6046	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6049	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C6050,51	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C6053-56	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C6062	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C6063	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C7302	ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7303	ECQV1H393JZ	P.CAPACITOR 50V 0.039U	1	
C7304	ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7305	ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C7306	ECQB1H102KZ	P.CAPACITOR 50V 1000P	1	
C7307	ECQB1H822KZ	P.CAPACITOR 50V 8200P	1	
C7308	ECQB1H102KZ	P.CAPACITOR 50V 1000P	1	
C7309	ECQB1H152JH	P.CAPACITOR 50V 1500P	1	
C7310	ECEA16M10	E.CAPACITOR 16V 1U	1	
C7311	ECEA50MR47	E.CAPACITOR 50V 0.47U	1	
C7312	ECQV1H224JM	P.CAPACITOR 50V 0.22U	1	
C7313	ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C7314	ECQV1H224JM	P.CAPACITOR 50V 0.22U	1	
C7315	ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C7316	ECQV1H224JM	P.CAPACITOR 50V 0.22U	1	
C7317	ECEA1CK101	E.CAPACITOR 16V 100U	1	
C7318	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7319	ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7320,21	ECEA1CK100	E.CAPACITOR 16V 10U	2	
C7323,24	ECQV1H393JZ	P.CAPACITOR 50V 0.039U	2	
C7331	ECQV1H474JM	P.CAPACITOR 50V 0.47U	1	
C7332,33	ECUM1H102ZFN	C.CAPACITOR CH 50V 1000P	2	
C7334	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C7335	ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7336	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7337	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C7339	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7340	ECUM1H390JPN	C.CAPACITOR CH 50V 39P	1	
C7341	ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C7342	ECQV1H823JM	P.CAPACITOR 50V 0.082U	1	
C7343	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7345	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7346	ECUM1H390JPN	C.CAPACITOR CH 50V 39P	1	
C7347	ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C7348	ECQV1H393JZ	P.CAPACITOR 50V 0.039U	1	
C7349,50	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	2	
C7351,52	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7353	ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7401	ECA1CM471	E.CAPACITOR 16V 470U	1	
C7402,03	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7404	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7405,06	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7407,08	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7409	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7410	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7651	ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C7652	ECUM1H122KBN	C.CAPACITOR CH 50V 1200P	1	
C7653	ECUM1H153KBN	C.CAPACITOR CH 50V 0.015U	1	
C7654	ECEA1HK010	E.CAPACITOR 50V 1U	1	
C7655	ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C7668	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7685	ECEA1HK010	E.CAPACITOR 50V 1U	1	
D301	1SS283	DIODE	1	<R>
D303	MA151WK	DIODE	1	<R>
D305	1SS254	DIODE	1	<R>
D306	MA723VT	DIODE	1	<R>
D307	1SS254	DIODE	1	<R>
D308,09	MA151WK	DIODE	2	<R>
D710	MA3100L	DIODE	1	<R>
D801-07	1SS254	DIODE	7	<R>
D808	MA151WK	DIODE	1	<R>
D2001-05	1SS254	DIODE	5	<R>
D2501-08	1SS254	DIODE	8	<R>
D2510	1SS254	DIODE	1	<R>
D3002	MA28W-A	DIODE	1	<R>
D3003	1SS254	DIODE	1	<R>
D3301	1SS254	DIODE	1	<R>
D3302	MA151K	DIODE	1	<R>
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D3403	MA723VT	DIODE	1	<R>
D3408	1SS254	DIODE	1	<R>
D3501	1SS254	DIODE	1	<R>
D3502	MA153	DIODE	1	<R>
D3504	MA151WK	DIODE	1	<R>
D3901	1SS254	DIODE	1	<R>
D3902	MA4130L	DIODE	1	<R>
D3903	1SS254	DIODE	1	<R>
D3904	MA151WK	DIODE	1	<R>
D3906	MA151WA	DIODE	1	<R>
D3908,09	1SS254	DIODE	2	<R>
D4003	MA723VT	DIODE	1	<R>
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D4501-04	MA141K	DIODE	4	<R>
D4601,02	MA141K	DIODE	2	<R>
D4701-03	1SS254	DIODE	3	<R>
D6001	1SS254	DIODE	1	<R>
D6002	MA723VT	DIODE	1	<R>
D6003	1SS254	DIODE	1	<R>
D6005	MA151WK	DIODE	1	<R>
D6006	MA151WA	DIODE	1	<R>
D6007	MA151WK	DIODE	1	<R>
D6008	MA151WA	DIODE	1	<R>
D6009	11EQS04	DIODE	1	<R>
D6011,12	11EQS04	DIODE	2	<R>
D6013	MA723VT	DIODE	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D6014		1SS254	DIODE	1	<R>
D6015		MA723VT	DIODE	1	<R>
D7303		MA28WA	DIODE	1	<R>
D7304		MA3100L	DIODE	1	<R>
D7401		MA723VT	DIODE	1	<R>
D7672,73		MA3150H	DIODE	2	<R>
DL801		EFDUN124A13N	DELAY	1	
DL802		EFDVR645A45A	DELAY	1	
DL803		VLD0147	DELAY	1	
FL301		ELB4M022	FILTER	1	
FL302		VLF0639	FILTER	1	
FL801		VLF1079	FILTER	1	
FL3001		ELB4H020	FILTER	1	
FL3601		ELB4R031	FILTER	1	
FL3901		VLF1120	FILTER	1	
FL3902		VLF0765	FILTER	1	
IC301		VEFH20B	IC	1	<R>
IC302		MN3859S	IC	1	<R>
IC303		AN1358S	IC	1	<R>
IC701		M51366SP	IC	1	<R>
IC801		VCR0383	IC	1	<R>
IC802		M52352FP	IC	1	<R>
IC2001		AN3727S	IC	1	<R>
IC2002		UPD4053BG	IC	1	<R>
IC2501		BA6219B	IC	1	<R>
IC2502		LM358PS	IC	1	<R>
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IC6001		MN6755320H3W	IC	1	<R>
IC6002		M38024V1BN	IC	1	<R>
IC6003		MN1280S	IC	1	<R>
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IC6008		TL431CLP	IC	1	<R>
IC7301		TDA3803A	IC	1	<R>
IC7302		TA8721SN	IC	1	<R>
IC7401		M66006FP	IC	1	<R>
IC7651		M52306FP	IC	1	<R>
J3901,02		VJS1470	CONNECTOR (FEMALE)	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
K2		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K4		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K6		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K101,02		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
K107		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K110		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K122		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K210		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K281		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K3010		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K3908		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K6003-05		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	3	
K7403,04		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
K7406-08		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	3	
K7417		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L302		VLQ0188J180	COIL 18UH	1	
L304		VLQ0188J270	COIL 27UH	1	
L305		VLQ0188J101	COIL 100UH	1	
L306		VLQ0188J390	COIL 39UH	1	
L309-11		VLQ0188J330	COIL 33UH	3	
L312		ELESN121JA	COIL 120UH	1	
L701		ELESQ680KA	COIL 68UH	1	
L711		ELQTR39XB	COIL 0.39UH	1	
L712		ELQTR22XB	COIL 0.22UH	1	
L714		VLQEL05F2R7K	COIL 2.7UH	1	
L716		ELESQ560KA	COIL 56UH	1	
L717,18		ELESQ680KA	COIL 68UH	2	
L719		ELESQ120KA	COIL 12UH	1	
L801,02		ELESE681KA	COIL 680UH	2	
L803		ELESN331KA	COIL 330UH	1	
L804		VLQ0407101K	COIL 100UH	1	
L806		VLQ0407101K	COIL 100UH	1	
L807,08		VLQ0188J150	COIL 15UH	2	
L809		VLQ0188J330	COIL 33UH	1	
L810		VLQ0188J150	COIL 15UH	1	
L811		VLQ0188J151	COIL 150UH	1	
L812		VLQ0188J270	COIL 27UH	1	
L813,14		VLQ0188J150	COIL 15UH	2	
L2001		VLQ0569	COIL	1	
L2002		VLQ0556	COIL	1	
L2501		VLP0074	COIL	1	
L2502		ELESN330KA	COIL 33UH	1	
L2503		ELESE102KA	COIL 1000UH	1	
L3001-03		VLQ0188J330	COIL 33UH	3	
L3004		VLQ0398	COIL	1	
L3005-08		VLQ0556	COIL	4	
L3301		VLQ0188J150	COIL 15UH	1	
L3304		VLQ0188J330	COIL 33UH	1	
L3306		VLQ0188J390	COIL 39UH	1	
L3307		VLQ0188J120	COIL 12UH	1	
L3308		VLQ0188J330	COIL 33UH	1	
L3309		VLQ0188J181	COIL 180UH	1	
L3310		VLQ0188J270	COIL 27UH	1	
L3313		ELESE681KA	COIL 680UH	1	
L3315,16		VLQ0188J5R6	COIL 5.6UH	2	
L3318		VLQ0188J330	COIL 33UH	1	
L3323		VLQ0188J330	COIL 33UH	1	
L3401		VLQ0188J150	COIL 15UH	1	
L3404		VLQ0188J220	COIL 22UH	1	
L3405		VLQ0188J330	COIL 33UH	1	
L3412		VLQ0188J330	COIL 33UH	1	
L3415		VLQ0188J120	COIL 12UH	1	
L3501		VLQ0188J330	COIL 33UH	1	
L3502		VLQ0188J5R6	COIL 5.6UH	1	
L3503		VLQ0188J100	COIL 10UH	1	
L3504		VLQ0188J390	COIL 39UH	1	
L3505		VLQ0188J820	COIL 82UH	1	
L3508		VLQ0188J330	COIL 33UH	1	
L3601		VLQEL05S120K	COIL 12UH	1	
L3602,03		VLQEL05S101K	COIL 100UH	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L3604		VLQEL05S151K	COIL 150UH	1	
L3605		VLQEL05S820K	COIL 82UH	1	
L3901-04		ELESE101KA	COIL 100UH	4	
L4001,02		ELESE101KA	COIL 100UH	2	
L4501,02		ELESE101KA	COIL 100UH	2	
L4601		VLQEL07F153J	COIL 15UH	1	
L4701		ELESE471KA	COIL 470UH	1	
L4702		ELESE101KA	COIL 100UH	1	
L4901,02		ELESE102KA	COIL 1000UH	2	
L4903,04		ELESE101KA	COIL 100UH	2	
L4905,06		ELESE102KA	COIL 1000UH	2	
L4907,08		ELESE101KA	COIL 100UH	2	
L4909,10		ELESE102KA	COIL 1000UH	2	
L6001		VLP0083	COIL	1	
L6002		ELESE101KA	COIL 100UH	1	
L6003		VLP0083	COIL	1	
L6007,08		VLP0083	COIL	2	
L6009		ELESE101KA	COIL 100UH	1	
L7301		ELESQ102KA	COIL 1000UH	1	
L7401-03		VLQ0188J330	COIL 33UH	3	
L7404		VLQ0540J330	COIL 33UH	1	
P1001		VJP2593	CONNECTOR (MALE)	1	
P1001		VJS2593	CONNECTOR (FEMALE)	1	
P1002		VJP1142	CONNECTOR (MALE)	1	
P1002		VJS1142	CONNECTOR (FEMALE)	1	
P1102		VJS1932	CONNECTOR (FEMALE)	1	
P1103		VJS1142	CONNECTOR (FEMALE)	1	
P1509		VJS1141	CONNECTOR (FEMALE)	1	
P2001		VJP1232T	CONNECTOR (MALE)	1	
P2001		VJS1738T	CONNECTOR (FEMALE)	1	
P2003		VJP3502	CONNECTOR (MALE)	1	
P2003		VJS3482	CONNECTOR (FEMALE)	1	
P2004		VJS3537A015G	CONNECTOR (FEMALE)	1	
P2902		VJS1738T	CONNECTOR (FEMALE)	1	
P3001		VJS3537A020G	CONNECTOR (FEMALE)	1	
P3002		VJP3233A010	CONNECTOR (MALE)	1	
P3002		VJS3366Z010	CONNECTOR (FEMALE)	1	
P3003		VJF0171	CONNECTOR	1	
P3003		VJP1393T	CONNECTOR (MALE)	1	
P3004		VJF0171T	CONNECTOR	1	
P3004		VJP1393T	CONNECTOR (MALE)	1	
P3801		VJF0171T	CONNECTOR	1	
P4001		VJS2331	CONNECTOR (FEMALE)	1	
P4002		VJP1238T	CONNECTOR (MALE)	1	
P4002		VJS1744T	CONNECTOR (FEMALE)	1	
P4003		VJP1230T	CONNECTOR (MALE)	1	
P4003		VJS1230	CONNECTOR (FEMALE)	1	
P6001		VJS3537A014G	CONNECTOR (FEMALE)	1	
P6003		VJP1233T	CONNECTOR (MALE)	1	
P6003		VJS1739T	CONNECTOR (FEMALE)	1	
P6004		VJP1235T	CONNECTOR (MALE)	1	
P6004		VJS1741T	CONNECTOR (FEMALE)	1	
P6502		VJS1744T	CONNECTOR (FEMALE)	1	
P7401,02		VJS3537A020G	CONNECTOR (FEMALE)	2	
P7503		VJS3366Z010	CONNECTOR (FEMALE)	1	
P7504		VJS1739T	CONNECTOR (FEMALE)	1	
P9001		VJF0171	CONNECTOR	1	
P9002		VJS1741T	CONNECTOR (FEMALE)	1	
PP2001		VJP3042A012W	CONNECTOR (MALE)	1	
PP2002		VJP3042A010W	CONNECTOR (MALE)	1	
PP3001		VJP3042A009W	CONNECTOR (MALE)	1	
PP3002		VJP3042A012W	CONNECTOR (MALE)	1	
PP3003		VJP3042A013W	CONNECTOR (MALE)	1	
PP3011,12		VJP3042A018W	CONNECTOR (MALE)	2	
PP3013		VJP3042A014W	CONNECTOR (MALE)	1	
PP3021-24		VJP3043A012W	CONNECTOR (MALE)	4	
PP3301		VJP3042A011W	CONNECTOR (MALE)	1	
PP4001-03		VJP3186A018W	CONNECTOR (MALE)	3	
PP4501		VJP3042A017W	CONNECTOR (MALE)	1	
PP7401-03		VJP3043A005W	CONNECTOR (MALE)	3	
PP7404		VJP3043A006W	CONNECTOR (MALE)	1	
PP7405		VJP3043A004W	CONNECTOR (MALE)	1	
PS301		VJS3042B009W	CONNECTOR (FEMALE)	1	
PS302		VJS3042B012W	CONNECTOR (FEMALE)	1	
PS303		VJS3042B013W	CONNECTOR (FEMALE)	1	
PS701-03		VJS3043B005W	CONNECTOR (FEMALE)	3	
PS704		VJS3043B006W	CONNECTOR (FEMALE)	1	
PS2001		VJS3042B012W	CONNECTOR (FEMALE)	1	
PS2002		VJS3042B010W	CONNECTOR (FEMALE)	1	
PS3021-24		VJS3043B012W	CONNECTOR (FEMALE)	4	
PS3302,03		VJS3042B018W	CONNECTOR (FEMALE)	2	
PS3501		VJS3042F014W	CONNECTOR (FEMALE)	1	
PS3601		VJS3042B011W	CONNECTOR (FEMALE)	1	
PS4001-03		VJS3186B018	CONNECTOR (FEMALE)	3	
PS4701		VJS3042B017W	CONNECTOR (FEMALE)	1	
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Q306		MSC2295	TRANSISTOR	1	<R>
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Q3424		MSB710	TRANSISTOR	1	<R>
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Q3602,03		MSC2295	TRANSISTOR	2	<R>
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Q3912		2SD1996	TRANSISTOR	1	<R>
Q3913-15		MSD601	TRANSISTOR	3	<R>
Q3916		MSB710	TRANSISTOR	1	<R>
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Q4551		2SB561	TRANSISTOR	1	<R>
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Q4601,02		2SD1819A	TRANSISTOR	2	<R>
Q4701		2SD602A-R	TRANSISTOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q4702,03		MSD601	TRANSISTOR	2	<R>
Q4704,05		MSB710	TRANSISTOR	2	<R>
Q4706		2SB1378	TRANSISTOR	1	<R>
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Q4708		2SB1378	TRANSISTOR	1	<R>
Q6001		2SD1991A	TRANSISTOR	1	<R>
Q6002		MSB709	TRANSISTOR	1	<R>
Q6003		2SD1915F	TRANSISTOR	1	<R>
Q6004-06		MSD601	TRANSISTOR	3	<R>
Q6008		2SD1991	TRANSISTOR	1	<R>
Q7301		MSD601-S	TRANSISTOR	1	<R>
Q7304,05		MSD601	TRANSISTOR	2	<R>
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Q7307		2SD1328-S	TRANSISTOR	1	<R>
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QR701,02		MRN1404	TRANSISTOR-RESISTOR	2	<R>
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QR3901-03		MRN1404	TRANSISTOR-RESISTOR	3	<R>
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QR4002,03		DTC363EK	TRANSISTOR-RESISTOR	2	<R>
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QR4701-03		MRN1403	TRANSISTOR-RESISTOR	3	<R>
QR4704		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR4901		MRN1404	TRANSISTOR-RESISTOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
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QR6004		MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR6009		XN1213	TRANSISTOR-RESISTOR	1	<R>
QR6012		MRN1404	TRANSISTOR-RESISTOR	1	<R>
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QR6015		MRN2402	TRANSISTOR-RESISTOR	1	<R>
QR7301,02		MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR7312-14		MRN1402	TRANSISTOR-RESISTOR	3	<R>
QR7315,16		MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR7401		MRN2403	TRANSISTOR-RESISTOR	1	<R>
			RESISTORS		
R301		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R303		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R304		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R305		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R306		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R307		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R308		ERJ6GMYJ104	M.RESISTOR CH1/10W 100K	1	
R309		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R310		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R311		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R312		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R313		ERJ6GMYJ361	M.RESISTOR CH1/10W 360	1	
R314		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R315		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R316		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R317		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R318		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	1	
R319		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R320		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R321		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R322		ERJ6GMYG123	M.RESISTOR CH1/10W 12K	1	
R323		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R324		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R325		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R326		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R327		ERJ6GMYG432	M.RESISTOR CH1/10W 4.3K	1	
R328		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R329		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R330		ERJ6GMYG432	M.RESISTOR CH1/10W 4.3K	1	
R331		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R332		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R333		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R334		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R335		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R336		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R337		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R338,39		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R340		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R341		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R342		ERJ6GMYJ181	M.RESISTOR CH1/10W 180	1	
R343		ERJ6GMYJ273	M.RESISTOR CH1/10W 27K	1	
R344		ERJ6GMYJ911	M.RESISTOR CH1/10W 910	1	
R345		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R346		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R347		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R348		ERJ6GMYJ273	M.RESISTOR CH1/10W 27K	1	
R349		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R350		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R351		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R352		ERJ6GMYG183	M.RESISTOR CH1/10W 18K	1	
R353		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R354		ERJ6GMYG753	M.RESISTOR CH1/10W 75K	1	
R355		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R356		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R357		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R358		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R359		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R360,61		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R716		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R717		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R718		ERJ6GEYJ754	M.RESISTOR CH1/10W 750K	1	
R719		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R720		ERJ6GEYJ622	M.RESISTOR CH1/10W 6.2K	1	
R721		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R723		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R724		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R725		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R726		ERJ6GEYJ472	M.RESISTOR CH1/10W 4.7K	1	
R727		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R728		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R731		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R732		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R737		ERJ6GEYJ274	M.RESISTOR CH1/10W 270K	1	
R738		ERJ6GEYJ334	M.RESISTOR CH1/10W 330K	1	
R740		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R741		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R743		ERJ6GEYJ470	M.RESISTOR CH1/10W 47	1	
R744		ERJ6GEYJ821	M.RESISTOR CH1/10W 820	1	
R745		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R746		ERDS2TJ181	C.RESISTOR 1/4W 180	1	
R747		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R750		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R759		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R772		ERJ6GEYJ271	M.RESISTOR CH1/10W 270	1	
R773		ERJ6GEYJ472	M.RESISTOR CH1/10W 4.7K	1	
R774		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R792		ERDS2TJ120	C.RESISTOR 1/4W 12	1	
R801		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R802		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R803		ERJ6GMYG242	M.RESISTOR CH1/10W 2.4K	1	
R804,05		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R809		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R810,11		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R814		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R815		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R816		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R817		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R818		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R820		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R821,22		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R824		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R825		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	1	
R826		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	1	
R827		ERJ6GMYJ154	M.RESISTOR CH1/10W 150K	1	
R828		ERJ6GMYJ204	M.RESISTOR CH1/10W 200K	1	
R829		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R830		ERJ6GMYJ154	M.RESISTOR CH1/10W 150K	1	
R831		ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	1	
R832		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R833		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R834		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R835,36		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	2	
R837		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R838,39		ERJ6GMYJ681	M.RESISTOR CH1/10W 680	2	
R840		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R841		ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R842,43		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	2	
R844		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R845		ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R846		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R847		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R848		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R849		ERJ6GMYK395	M.RESISTOR CH1/10W 3.9M	1	
R850		ERJ6GMYJ302	M.RESISTOR CH1/10W 3K	1	
R851,52		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R853		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R1001		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R2004		ERJ6GMYJ104	M.RESISTOR CH1/10W 100K	1	
R2005		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R2011		ERJ6GMYG222	M.RESISTOR CH1/10W 2.2K	1	
R2012		ERJ6GMYG392	M.RESISTOR CH1/10W 3.9K	1	
R2013,14		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	2	
R2015		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R2016		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R2018		ERJ6GMYJ104	M.RESISTOR CH1/10W 100K	1	
R2019		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R2501		ERX1SJ1R8	M.RESISTOR 1W 1.8	1	
R2502		ERJ6GMYG112	M.RESISTOR CH1/10W 1.1K	1	
R2503		ERJ6GMYG102	M.RESISTOR CH1/10W 1K	1	
R2504		ERJ6GMYG332	M.RESISTOR CH1/10W 3.3K	1	
R2505		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R2506		ERJ6GMYJ564	M.RESISTOR CH1/10W 560K	1	
R2507		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R2508		VRE0034E512	M.RESISTOR CH 1/10W 5.1K	1	
R2509		VRE0034E472	M.RESISTOR CH 1/10W 4.7K	1	
R2510		ERJ6GMYJ105	M.RESISTOR CH1/10W 1M	1	
R2511		ERJ6GMYJ684	M.RESISTOR CH1/10W 680K	1	
R2513		ERJ6GMYG133	M.RESISTOR CH1/10W 13K	1	
R2514		ERJ6GMYG821	M.RESISTOR CH1/10W 820	1	
R2515		ERG12SJ561	M.RESISTOR 1/2W 560	1	
R2516		ERJ6GMYG473	M.RESISTOR CH1/10W 47K	1	
R2517		ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
R2518		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R2519		ERJ6GMYG432	M.RESISTOR CH1/10W 4.3K	1	
R2520		ERJ6GMYG103	M.RESISTOR CH1/10W 10K	1	
R2521-23		ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R2524		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R2525		EROS2CKG6800	M.RESISTOR 1/4W 680	1	
R2526		ERJ6GMYJ392	M.RESISTOR CH1/10W 3.9K	1	
R2527		ERJ6GMYJ105	M.RESISTOR CH1/10W 1M	1	
R2528		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R2529		ERJ6GMYJ392	M.RESISTOR CH1/10W 3.9K	1	
R2530		ERJ6GMYJ105	M.RESISTOR CH1/10W 1M	1	
R2531,32		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	2	
R2533		ERJ6GMYJ393	M.RESISTOR CH1/10W 39K	1	
R2534		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R2535		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R2536		ERJ6GMYJ824	M.RESISTOR CH1/10W 820K	1	
R2537		ERJ6GMYJ393	M.RESISTOR CH1/10W 39K	1	
R2538		ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R2539		ERJ6GMYJ681	M.RESISTOR CH1/10W 680	1	
R2540		ERJ6GMYJ105	M.RESISTOR CH1/10W 1M	1	
R2541		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	1	
R3001,02		ERJ6GMYJ750	M.RESISTOR CH1/10W 75	2	
R3003		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R3004		ERJ6GMYJ683	M.RESISTOR CH1/10W 68K	1	
R3005		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3006,07		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R3008		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3009		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3010		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3011		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3012		ERJ6GMYG911	M.RESISTOR CH1/10W 910	1	
R3013		ERJ6GMYG102	M.RESISTOR CH1/10W 1K	1	
R3014		ERJ6GMYG471	M.RESISTOR CH1/10W 470	1	
R3015		ERJ6GMYG102	M.RESISTOR CH1/10W 1K	1	
R3016		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3017		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3018		ERJ6GMYJ392	M.RESISTOR CH1/10W 3.9K	1	
R3019		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R3021		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3022		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R3023		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R3024		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	1	
R3025		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R3026,27		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R3301		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3302		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R3303		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3304		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R3305		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3306		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R3307		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3308		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3310		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3322		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R3323		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R3324		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3325,26		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R3327		ERJ6GMYJ821	M.RESISTOR CH1/10W 820	1	
R3328		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3333		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3334		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3335		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3336,37		ERJ6GMYJ681	M.RESISTOR CH1/10W 680	2	
R3338		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3339		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3340		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3341		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R3342		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R3345-47		ERJ6GMYJ821	M.RESISTOR CH1/10W 820	3	
R3352		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3353		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3401		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3402		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R3403		ERJ6GMYG361	M.RESISTOR CH 1/10W 360	1	
R3404		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3405		ERJ6GMYG123	M.RESISTOR CH1/10W 12K	1	
R3406		ERJ6GMYG512	M.RESISTOR CH1/10W 5.1K	1	
R3407		ERJ6GMYG272	M.RESISTOR CH1/10W 2.7K	1	
R3408		ERJ6GMYG302	M.RESISTOR CH1/10W 3K	1	
R3409		ERJ6GMYG821	M.RESISTOR CH1/10W 820	1	
R3410		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3411-13		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	3	
R3415		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3417		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3422		ERJ6GMYG333	M.RESISTOR CH1/10W 33K	1	
R3423		ERJ6GMYG683	M.RESISTOR CH1/10W 68K	1	
R3424		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3425		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R3426		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R3427		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3428		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R3429		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3430		ERJ6GMYJ823	M.RESISTOR CH1/10W 82K	1	
R3431		ERJ6GMYG821	M.RESISTOR CH1/10W 820	1	
R3433		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3434		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3435		ERJ6GMYG302	M.RESISTOR CH1/10W 3K	1	
R3436		ERJ6GMYG272	M.RESISTOR CH1/10W 2.7K	1	
R3437		ERJ6GMYG512	M.RESISTOR CH1/10W 5.1K	1	
R3438		ERJ6GMYG123	M.RESISTOR CH1/10W 12K	1	
R3441		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R3442		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3443		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R3444,45		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	2	
R3446,47		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R3463		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3464		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3465		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3466		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3467		ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R3468,69		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	2	
R3470		ERJ6GMYG123	M.RESISTOR CH1/10W 12K	1	
R3471		ERJ6GMYG512	M.RESISTOR CH1/10W 5.1K	1	
R3472		ERJ6GMYG272	M.RESISTOR CH1/10W 2.7K	1	
R3473		ERJ6GMYG302	M.RESISTOR CH1/10W 3K	1	
R3474		ERJ6GMYG821	M.RESISTOR CH1/10W 820	1	
R3475		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3476		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3477,78		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R3479		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3501		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3502		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3503		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3504,05		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R3506		ERJ6GMYJ104	M.RESISTOR CH1/10W 100K	1	
R3507		ERJ6GMYG103	M.RESISTOR CH1/10W 10K	1	
R3508		ERJ6GMYG332	M.RESISTOR CH1/10W 3.3K	1	
R3509-11		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	3	
R3513,14		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	2	
R3515		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3516		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3517		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3518		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3519		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3520		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3521		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3522		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3523		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3524		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3525		ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R3526		ERJ6GMYJ470	M.RESISTOR CH1/10W 47	1	
R3601		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3602		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3603		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3604		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3605		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R3606		ERJ6GMYJ821	M.RESISTOR CH1/10W 820	1	
R3607-12		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	6	
R3613		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R3614		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3616		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3901-05		ERJ6GMYJ750	M.RESISTOR CH1/10W 75	5	
R3906		ERDS1TJ750	C.RESISTOR 1/2W 75	1	
R3908,09		ERJ6GMYJ750	M.RESISTOR CH1/10W 75	2	
R3910,11		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	2	
R3912,13		ERJ6GMYJ151	M.RESISTOR CH1/10W 150	2	
R3914		ERJ6GMYJ750	M.RESISTOR CH1/10W 75	1	
R3915		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R3916,17		ERDS2TJ181	C.RESISTOR 1/4W 180	2	
R3926		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3927,28		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R3929		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3930		ERJ6GMYJ112	M.RESISTOR CH1/10W 1.1K	1	
R3931		ERJ6GMYJ123	M.RESISTOR CH1/10W 12K	1	
R3932		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R3933		ERJ6GMYJ104	M.RESISTOR CH1/10W 100K	1	
R3934		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R3935		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3936		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R3938		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3945		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R3946		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R3950,51		ERJ6GMYJ331	M.RESISTOR CH1/10W 330	2	
R3953		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R3954		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3955		ERJ6GMYJ123	M.RESISTOR CH1/10W 12K	1	
R3956		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R3957-60		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	4	
R3961		ERJ6GMYJ750	M.RESISTOR CH1/10W 75	1	
R3962		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3963		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3964		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R3965		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3966		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3967		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3968		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4001,02		ERDS2TJ680	C.RESISTOR 1/4W 68	2	
R4003-08		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	6	
R4009		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R4010		ERJ6GMYG433	M.RESISTOR CH1/10W 43K	1	
R4011		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R4012		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R4013		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R4014		ERJ6GMYG100	M.RESISTOR CH1/10W 10	1	
R4015		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R4020		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R4021		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R4022		ERJ6GMYJ273	M.RESISTOR CH1/10W 27K	1	
R4028		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R4029,30		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R4033		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R4034		ERJ6GMYG393	M.RESISTOR CH1/10W 39K	1	
R4035		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R4036		ERJ6GMYG393	M.RESISTOR CH1/10W 39K	1	
R4501,02		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4503		ERJ3GEYG223	M.RESISTOR CH1/16W 22K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4504,05		ERJ3GEYJ393	M.RESISTOR CH1/16W 39K	2	
R4506,07		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	2	
R4508		ERJ3GEYG224	M.RESISTOR CH1/16W 220K	1	
R4509		ERJ3GEYJ622	M.RESISTOR CH 1/16W 6.2K	1	
R4511		ERJ3GEYG273	M.RESISTOR CH1/16W 27K	1	
R4512		VRE0071E163	M.RESISTOR 16K	1	
R4513		ERJ3GEYG103	M.RESISTOR CH1/16W 10K	1	
R4514,15		ERJ3GEYJ223	M.RESISTOR CH1/16W 22K	2	
R4518,19		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4522		ERJ3GEYJ225	M.RESISTOR CH1/16W 2.2M	1	
R4527		VRE0071E333	M.RESISTOR 33K	1	
R4528		VRE0071E153	M.RESISTOR 15K	1	
R4529		ERJ3GEYG562	M.RESISTOR CH1/16W 5.6K	1	
R4530		ERJ3GEYJ334	M.RESISTOR CH1/16W 330K	1	
R4534		ERJ3GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R4535		ERJ3GEYJ104	M.RESISTOR CH1/16W 100K	1	
R4539		ERJ3GEYJ104	M.RESISTOR CH1/16W 100K	1	
R4541		ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R4542		ERJ3GEYJ222	M.RESISTOR CH1/16W 2.2K	1	
R4543		ERJ3GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R4551,52		ERJ3GEYJ393	M.RESISTOR CH1/16W 39K	2	
R4553,54		ERJ3GEYJ273	M.RESISTOR CH1/16W 27K	2	
R4558		ERJ3GEYG224	M.RESISTOR CH1/16W 220K	1	
R4561		ERJ3GEYG273	M.RESISTOR CH1/16W 27K	1	
R4562		VRE0034E10C	M.RESISTOR CH 1/10W 1	1	
R4563		ERJ3GEYG272	M.RESISTOR CH1/16W 2.7K	1	
R4568,69		ERJ3GEYJ273	M.RESISTOR CH1/16W 27K	2	
R4573		ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R4577		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	1	
R4578		VRE0071E473	M.RESISTOR 47K	1	
R4581		ERJ3GEYJ104	M.RESISTOR CH1/16W 100K	1	
R4583		ERJ3GEYJ102	M.RESISTOR CH1/16W 1K	1	
R4584		ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R4585		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4586		ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R4587,88		ERJ3GEYJ273	M.RESISTOR CH1/16W 27K	2	
R4591		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	1	
R4592		ERJ3GEYJ563	M.RESISTOR CH1/16W 56K	1	
R4593		ERJ3GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R4594		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	1	
R4596		ERJ3GEYG473	M.RESISTOR CH1/16W 47K	1	
R4597		ERJ3GEYJ103	M.RESISTOR CH1/16W 10K	1	
R4598,99		ERJ3GEYG104	M.RESISTOR CH1/16W 100K	2	
R4603		ERJ3GEYG183	M.RESISTOR CH1/16W 18K	1	
R4606		ERJ3GEYJ562	M.RESISTOR CH1/16W 5.6K	1	
R4610		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	1	
R4611		ERJ3GEYJ101	M.RESISTOR CH1/16W 100	1	
R4612		ERJ3GEYJ331	M.RESISTOR CH1/16W 330	1	
R4613		ERJ3GEYJ394	M.RESISTOR CH1/16W 390K	1	
R4615		ERJ3GEYJ133	M.RESISTOR CH1/16W 13K	1	
R4616		ERJ3GEYJ105	M.RESISTOR CH1/16W 1M	1	
R4638		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4649		ERJ3GEYJ470	M.RESISTOR CH1/16W 47	1	
R4651		ERJ3GEYJ101	M.RESISTOR CH1/16W 100	1	
R4652		ERJ3GEYJ223	M.RESISTOR CH1/16W 22K	1	
R4653		ERJ3GEYJ221	M.RESISTOR CH1/16W 220	1	
R4654		ERJ3GEYJ223	M.RESISTOR CH1/16W 22K	1	
R4655		ERJ3GEYJ562	M.RESISTOR CH1/16W 5.6K	1	
R4656		ERJ3GEYG243	M.RESISTOR CH1/16W 24K	1	
R4657		ERJ3GEYJ392	M.RESISTOR CH1/16W 3.9K	1	
R4666		ERJ3GEYJ471	M.RESISTOR CH1/16W 470	1	
R4671		ERJ3GEYG103	M.RESISTOR CH1/16W 10K	1	
R4701		ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	1	
R4702		ERJ6GMYJ821	M.RESISTOR CH1/10W 820	1	
R4703		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R4704,05		ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	2	
R4706		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R4707		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R4708		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4709		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R4710		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4711		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R4712		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R4713		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4714		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4715		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R4716		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4717		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R4718		ERJ6GMYG753	M.RESISTOR CH1/10W 75K	1	
R4719		ERJ6GMYG203	M.RESISTOR CH1/10W 20K	1	
R4720,21		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	2	
R4722		ERJ6GMYJ104	M.RESISTOR CH1/10W 100K	1	
R4723		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R4724,25		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	2	
R4726		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R4901,02		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	2	
R4903,04		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	2	
R4905,06		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	2	
R4907,08		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	2	
R4909,10		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R4915-18		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	4	
R4921		ERJ6GMYG163	M.RESISTOR CH1/10W 16K	1	
R4922,23		ERJ6GMYG433	M.RESISTOR CH1/10W 43K	2	
R4924		ERJ6GMYG163	M.RESISTOR CH1/10W 16K	1	
R4925		ERJ6GMYG473	M.RESISTOR CH1/10W 47K	1	
R4926		ERJ6GMYG223	M.RESISTOR CH1/10W 22K	1	
R4927,28		ERJ6GMYJ104	M.RESISTOR CH1/10W 100K	2	
R4929		ERJ6GMYG223	M.RESISTOR CH1/10W 22K	1	
R4930		ERJ6GMYG473	M.RESISTOR CH1/10W 47K	1	
R4931		ERJ6GMYJ104	M.RESISTOR CH1/10W 100K	1	
R6001		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6002,03		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	2	
R6004		EROS2CKG2000	M.RESISTOR 1/4W 200	1	
R6005		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R6006		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6007-09		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	3	
R6010,11		ERJ6GMYG223	M.RESISTOR CH1/10W 22K	2	
R6012		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6013		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6015,16		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6017		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6018		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6019		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6020,21		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6022-24		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	3	
R6025		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R6027		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R6028		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R6029		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R6030		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R6031		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R6032,33		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	2	
R6034		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6035		ERJ6GMYJ104	M.RESISTOR CH1/10W 100K	1	
R6036		ERJ6GMYJ123	M.RESISTOR CH1/10W 12K	1	
R6037,38		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R6039,40		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	2	
R6041		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	1	
R6042		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	1	
R6044-49		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	6	
R6050		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6051		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	1	
R6052		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R6053		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R6054		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R6055		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R6056,57		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	2	
R6058,59		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6060		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6061,62		ERJ6GMYJ683	M.RESISTOR CH1/10W 68K	2	
R6063		ERJ6GMYJ224	M.RESISTOR CH1/10W 220K	1	
R6064		ERJ6GMYJ104	M.RESISTOR CH1/10W 100K	1	
R6066		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6067		ERJ6GMYJ181	M.RESISTOR CH1/10W 180	1	
R6068-70		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	3	
R6071		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R6074		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R6075		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6076		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R6077		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6078		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6079		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6081		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R6082		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6083-86		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	4	
R6087,88		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	2	
R6089,90		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6091		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6092,93		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	2	
R6094,95		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	2	
R6096		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R6097,98		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6099		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R6100		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6101		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6102,03		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	2	
R6104		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R6106,07		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R6108		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6109		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R6110		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6112		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6114		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6116		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6118		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6120		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6122		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6123		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R6124		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6125		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R7302		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R7303		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R7304		ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R7305		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R7306		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R7307		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R7308		ERJ6GEYJ273	M.RESISTOR CH1/10W 27K	1	
R7309		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R7310		ERJ6GEYJ474	M.RESISTOR CH1/10W 470K	1	
R7311		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R7312		ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R7313		ERJ6GEYJ824	M.RESISTOR CH1/10W 820K	1	
R7314,15		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	2	
R7316		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	
R7317		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R7318		ERJ6GEYJ153	M.RESISTOR CH1/10W 15K	1	
R7321		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7322		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R7323		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7324,25		ERJ6GEYJ271	M.RESISTOR CH1/10W 270	2	
R7329		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R7330		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R7334-37		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	4	
R7338		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R7339		ERJ6GEYJ330	M.RESISTOR CH1/10W 33	1	
R7340		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R7341		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R7342		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7345		ERJ6GEYJ182	M.RESISTOR CH1/10W 1.8K	1	
R7346		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R7347		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R7348		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R7349		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R7351-53		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R7354,55		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R7403		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R7407,08		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R7410-12		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	3	
R7413-19		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	7	
R7420		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R7421-23		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	3	
R7651		ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R7652		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R7653		ERJ6GEYF124	M.RESISTOR CH1/10W 120K	1	
R7654		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7655		ERJ6GEYJ334	M.RESISTOR CH1/10W 330K	1	
R7676		ERG1SJ152	M.RESISTOR 1W 1.5K	1	
RX3401		EXBF8E102J	RESISTOR-RESISTOR	1	
SW3901		VSS0385	SWITCH	1	<R>
T703		EIV5EC013A	TRANSFORMER	1	
T704		EIV5EC006A1	TRANSFORMER	1	
T4701		VLT0695	TRANSFORMER	1	
T4702		VLT0696	TRANSFORMER	1	
T7301		EIR7QG001B	TRANSFORMER	1	
T7302,03		EIL7QH012Q	TRANSFORMER	2	
T7304		EIS5EC017A	TRANSFORMER	1	
T7305		EQS5EC033A	TRANSFORMER	1	
TR		VJS3481	CONNECTOR (FEMALE)	1	
VR301		EVN49CA00B23	V.RESISTOR 2K	1	
VR302		EVN49CA00B13	V.RESISTOR 1K	1	
VR303		EVNCBAA00B13	V.RESISTOR 1K	1	
VR304		EVN49CA00B13	V.RESISTOR 1K	1	
VR701		EVMEASA00B23	V.RESISTOR 2K	1	
VR801,02		EVMEASA00B13	V.RESISTOR 1K	2	
VR803		EVMEASA00B14	V.RESISTOR 10K	1	
VR804		EVN49CA00B53	V.RESISTOR 5K	1	
VR2001-05		EVNCYAA03B54	V.RESISTOR 500K	5	
VR3001-03		EVNCYAA03B23	V.RESISTOR 2K	3	
VR3301		EVMEASA00B24	V.RESISTOR 20K	1	
VR3302		EVN49CA00B54	V.RESISTOR 50K	1	
VR3304,05		EVN49CA00B52	V.RESISTOR 500	2	
VR3307		EVN49CA00B54	V.RESISTOR 50K	1	
VR3901		EVMEASA00B24	V.RESISTOR 20K	1	
VR4002		EVNCYAA03B25	V.RESISTOR 200K	1	
VR4501		EVMECSA00B53	V.RESISTOR 5K	1	
VR4502		EVMEASA00BY4	V.RESISTOR	1	
VR4507		EVMEASA00BY4	V.RESISTOR	1	
VR4509		EVMECSA00BY3	V.RESISTOR	1	
VR4512		EVNCBAA00B52	V.RESISTOR 500	1	
VR4550		EVMECSA00B14	V.RESISTOR 10K	1	
VR4551,52		EVMEASA00B55	V.RESISTOR 500K	2	
VR7301		EVMEASA00B14	V.RESISTOR 10K	1	
VR7326		EVMEASA00B52	V.RESISTOR 500	1	
VR7328		EVMEASA00B52	V.RESISTOR 500	1	
VR7340		EVNCBAA00B14	V.RESISTOR 10K	1	
VR7342		EVNCBAA00B53	V.RESISTOR 5K	1	
VR7344		EVNCBAA00B14	V.RESISTOR 10K	1	
VR7660		EVNCBAA00B15	V.RESISTOR 100K	1	
W31		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W32		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W33		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W100		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W101		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W101		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W101		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W102		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W102		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W103		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W103		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W104		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W104		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W105		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
W105		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W106		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W106		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W106		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W107		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W107		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W108		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W109		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W109		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W110		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W111		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W112		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W113		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W114		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W115,16		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
W116-20		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	5	
W120-23		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	4	
W123,24		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
W124,25		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
W125,26		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
W126-38		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	13	
W138-43		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	6	
W143,44		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
W144,45		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
W145-47		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	3	
W147-50		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	4	
W150,51		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
W151,52		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
W152,53		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
W153-56		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	4	
W156-65		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	10	
W167-74		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	8	
W192-95		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	4	
W201-05		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	5	
W205,06		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
W206,07		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
W207,08		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
W208-17		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	10	
W220		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
X710		VLF1060	CRYSTAL OSCILLATOR	1	<R>
X711		VLF0638	CRYSTAL OSCILLATOR	1	<R>
X716		EFCV4045A4	CRYSTAL OSCILLATOR	1	<R>
X720		VLF1061	CRYSTAL OSCILLATOR	1	<R>
X801		VSX0406	CRYSTAL OSCILLATOR	1	<R>
X3302		EF0GC3584A5	CRYSTAL OSCILLATOR	1	<R>
X3501		VSX0574	CRYSTAL OSCILLATOR	1	<R>
X6001		VSX0583	CRYSTAL OSCILLATOR	1	<R>
X6002		EF0EC7374T4E	CRYSTAL OSCILLATOR	1	
X7001		VSQ0565	CRYSTAL OSCILLATOR	1	<R>
X7301,02		EFCS5R5MS5B	CRYSTAL OSCILLATOR	2	
X7303,04		EFCS5R74MS5B	CRYSTAL OSCILLATOR	2	
X7305		ELB5A016	CRYSTAL OSCILLATOR	1	<R>
			MISCELLANEOUS		
		VEE8682	WIRE CABLE	1	(P1001-P1102)
		VEE8683	WIRE CABLE	1	(P1002-P1103)
		VWJ0775A	FLAT CARD CABLE	1	(P2004-P1507)
		VWJ0776B	FLAT CARD CABLE	1	(P3001-P501)
		VWJ0778A	FLAT CARD CABLE	1	(P7401-P7501)
		VWJ0801B	FLAT CARD CABLE	1	(P7402-P7502)
		VMA6768	EARTH ANGLE	1	
		VJF1031	CLAMPER	1	
		XTV3+10J	SCREW	2	
		VEE8687	WIRE CABLE	1	(P4003-P1509)
		XTV3+8J	SCREW	2	
		VEE9262	WIRE CABLE	1	(P3801-P3004)
		ENC17984	RF CONVERTER	1	<!>
		VEE9099	WIRE CABLE	1	(POWER TR.-P2003)
		VJH0683	RF ANT TERMINAL PLATE	1	
		VEE8688	WIRE CABLE	1	(P2001-P2902)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEE8685	WIRE CABLE	1	(P4002-P6502)
		VEE8686	WIRE CABLE	1	(P6003-P7504)
		VEE8837	WIRE CABLE	1	(P3002-P7503)
		VEE8834	WIRE CABLE	1	(P3003-P9001)
		VEE8835	WIRE CABLE	1	(P6004-P9002)
		ENV578D7H6	TUNER	1	<!> FOR TV DEMODU
		VSC4025	SHIELD COVER (MAIN)	1	FOR TV DEMODULATOR
		VSC3241	SHIELD COVER (TOP)	1	FOR TV DEMODULATOR
		VMX2233	SPACER	1	FOR SUB Y/C
		VEJ1438	JACK PLATE	1	FOR I/O
		XTV3+8GFZ	SCREW	1	FOR I/O
		VEP03A37T	P.C.BOARD W/COMPONENT		AG-4700B
			MAIN		
		VEP07680K	P.C.BOARD W/COMPONENT		ON VEP03A37T
			TV DEMODULATOR		
		VEP02412B	P.C.BOARD W/COMPONENT		ON VEP03A37T
			CAP DRIVE		
		VEP03A61E	P.C.BOARD W/COMPONENT		ON VEP03A37T
			Y/C		
		VEP03A62C	P.C.BOARD W/COMPONENT		ON VEP03A37T
			SUB Y/C		
		VEP03A90A	P.C.BOARD W/COMPONENT		ON VEP03A37T
			REC/RF		
		VEP03A72D	P.C.BOARD W/COMPONENT		ON VEP03A37T
			INPUT/OUTPUT		
		VEP04417C	P.C.BOARD W/COMPONENT		ON VEP03A37T
			SUB AUDIO		
		VEP04447E	P.C.BOARD W/COMPONENT		ON VEP03A37T
			FM AUDIO		
		VEP07675A	P.C.BOARD W/COMPONENT		ON VEP03A37T
			DECORDER		
			CAPACITORS		
C301		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C303		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C305		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C306		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C307		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C308		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C309		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C310		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C311		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C312		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C313		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C314		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C315,16		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C317		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C318		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C319		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C321,22		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	2	
C324		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C325,26		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C329		ECQV1H334JM	P.CAPACITOR 50V 0.33U	1	
C331		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C332,33		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C334		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C335		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C336		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C337		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C338		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C339		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C340		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C341		ECEA1CKA100	E.CAPACITOR 16V 10U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C342		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C343		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C344		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C345,46		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C348		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C349		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C350		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C701		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C702,03		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	2	
C706		ECUM1H104ZFG	C.CAPACITOR CH 50V 0.1U	1	
C708		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C719,20		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C721		ECQV1H823JM	P.CAPACITOR 50V 0.082U	1	
C723		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C725		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C728		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C731		VCEA1CAC100	E.CAPACITOR 16V 10U	1	
C732		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C735		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C736,37		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C739		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C740		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C741		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C742		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C743		ECUM1H270JSN	C.CAPACITOR CH 50V 27P	1	
C744,45		ECEA1HK0R1	E.CAPACITOR 50V 0.1U	2	
C746		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C747		ECUM1H680JPN	C.CAPACITOR CH 50V 68P	1	
C748		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C749		ECEA1CPK100	E.CAPACITOR 16V 10U	1	
C760		ECQV1H563JM	P.CAPACITOR 50V 0.056U	1	
C761		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C782		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C802		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C803		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C804		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C805,06		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C808		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C809		ECEA1HKA4R7	E.CAPACITOR 50V 4.7U	1	
C810		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C811-13		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C814		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C815		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C816		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C817		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C818		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C819		ECWM1H332JZ	F.CAPACITOR 50V 3300P	1	
C820		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C821-23		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C824		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C825-27		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C828,29		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	2	
C830		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C831		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C832		ECQV1H154JM	P.CAPACITOR 50V 0.15U	1	
C833		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C834		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C835		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C836		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C1001		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C2001		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2003		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C2005		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2006		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C2007		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2009		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2010		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2501-04		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C2505		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2506		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2507		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2508-10		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	3	
C2511-14		VCUM1H333KBN	C.CAPACITOR 50V 0.033U	4	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2515		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2516		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C2517		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2518		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2519,20		VCUM1H333KBN	C.CAPACITOR 50V 0.033U	2	
C2521		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2522		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	1	
C2523		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C2524,25		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C2526		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2527		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C2528		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	1	
C2529		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2530		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2531		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C2532		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2533		ECEA0JKA330	E.CAPACITOR 6.3V 33U	1	
C2534,35		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
C3001		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C3002		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3003-06		ECEA1HKA010	E.CAPACITOR 50V 1U	4	
C3007,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3009		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3010		ECA1AM331	E.CAPACITOR 10V 330U	1	
C3011		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3012		ECA1AM331	E.CAPACITOR 10V 330U	1	
C3013		ECA0JM331	E.CAPACITOR 6.3V 330U	1	
C3014		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3015		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3016		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3017-19		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C3022		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3023,24		ECEA1AKA330	E.CAPACITOR 10V 33U	2	
C3027,28		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3029		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3030		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3031		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3032		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3033		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3301		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3302		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3304-08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C3309		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3310		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3312-14		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3321		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3322		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3323		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3324		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3325		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3326		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3327,28		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3329		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3330		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3336		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3338		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3339		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3340		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3341		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3342		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3343		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3344		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3345		ECUM1H391JCN	C.CAPACITOR CH 50V 390P	1	
C3346		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3347		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3351,52		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	2	
C3353		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3354		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3372		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C3401		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3402		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C3403-07		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C3408,09		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3421		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C3422		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3423		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C3424		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3425		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3426		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3427		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3428		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3429		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3430		ECEA0JKA330	E.CAPACITOR 6.3V 33U	1	
C3431		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3443		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3444		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3445		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3447		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C3448		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3449		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3450,51		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C3452		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3472		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3473		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3474		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3475-77		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3501		ECA0JM471	E.CAPACITOR 6.3V 470U	1	
C3502		ECRHA030E54	TRIMMER CAPACITOR	1	
C3503		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3504		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C3505		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3506		ECWM1H682JZ	F.CAPACITOR 50V 6800P	1	
C3507		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3508		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C3509		ECUM1H122KBN	C.CAPACITOR CH 50V 1200P	1	
C3510		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3511		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3512		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3513		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C3514,15		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C3516,17		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C3518		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C3519		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C3520		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C3521		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3522		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C3523		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3524		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3525-27		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3528		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3529		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3530		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3531		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3532		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3533		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C3534		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3601		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3602		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3603		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3604		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3605		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3606		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3607		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3608		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3609		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C3610		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3611		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3613		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3614		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3901-05		ECEA1CKA100	E.CAPACITOR 16V 10U	5	
C3906		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3907		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3908		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3909,10		ECA1AM471	E.CAPACITOR 10V 470U	2	
C3911		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C3912		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C3913		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3914		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C3915		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3916		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3917		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3918		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3919		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3922		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3923		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3924		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3927		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C4001,02		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4003,04		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C4005		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4006		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C4007		ECEA1CPZ101	E.CAPACITOR 16V 100U	1	
C4008		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C4009		ECEA1CPZ101	E.CAPACITOR 16V 100U	1	
C4010		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C4011,12		ECUM1H122KBN	C.CAPACITOR CH 50V 1200P	2	
C4501		ECWM1H152JZ	F.CAPACITOR 50V 1500P	1	
C4502		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4503		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4504,05		ECEA1CU470	E.CAPACITOR 16V 47U	2	
C4506		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4507		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4508		ECEA1EBZ4R7	E.CAPACITOR 25V 4.7U	1	
C4509		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4510		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4511		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4512		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4513		ECUX1H681JV	C.CAPACITOR CH 50V 680P	1	
C4514		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4515		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C4517		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4518		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4521		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4522		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C4528		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4530		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C4533		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4537		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4538		ECEA1HUR47	E.CAPACITOR 50V 0.47U	1	
C4539		ECUM1C224ZFV	C.CAPACITOR CH 16V 0.22U	1	
C4541		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4545		ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4551		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4552		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4556		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4558		ECEA1EBZ4R7	E.CAPACITOR 25V 4.7U	1	
C4559		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4560		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4561		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4562		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4563		ECUX1H681JV	C.CAPACITOR CH 50V 680P	1	
C4564		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4565		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C4567		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4568		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4572		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C4576		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4583		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4585,86		ECEA1AU101	E.CAPACITOR 10V 100U	2	
C4591		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4592		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4593		ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C4594,95		ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C4596		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4597		ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C4598		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4604		ECUM1H182JN	C.CAPACITOR CH 50V 1800P	1	
C4606		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C4611		ECWM1H182JZ	F.CAPACITOR 50V 1800P	1	
C4613		ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C4616		ECUX1H102ZFV	C.CAPACITOR CH 50V 1000P	1	
C4617		ECEA1OM22	E.CAPACITOR 10V 22U	1	
C4618		ECWM1H822JZ	F.CAPACITOR 50V 8200P	1	
C4621		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C4629		ECQB1H562JZ	P.CAPACITOR 50V 5600P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4636		ECUX1H471JV	C.CAPACITOR CH 50V 470P	1	
C4638		ECWM1H822JZ	F.CAPACITOR 50V 8200P	1	
C4652,53		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C4701		ECCD2H181J	C.CAPACITOR 500V 180P	1	
C4702		ECQP1222JZ	P.CAPACITOR 100V 2200P	1	
C4703		ECQB1H102JF	P.CAPACITOR 50V 1000P	1	
C4704		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4705		ECEA16M33	E.CAPACITOR 16V 33U	1	
C4706		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C4707		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4708		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4709		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C4710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4711,12		ECEA1AKA220	E.CAPACITOR 10V 22U	2	
C4713		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C4714		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C4901,02		ECWM1H103JZ	F.CAPACITOR 50V 0.01U	2	
C4903,04		ECWM1H332JZ	F.CAPACITOR 50V 3300P	2	
C4905,06		VCEA1CAD100	E.CAPACITOR 16V 10U	2	
C4907,08		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4909,10		ECWM1H103JZ	F.CAPACITOR 50V 0.01U	2	
C4911,12		ECWM1H332JZ	F.CAPACITOR 50V 3300P	2	
C4913,14		VCEA1CAD100	E.CAPACITOR 16V 10U	2	
C4915,16		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4917,18		ECWM1H103JZ	F.CAPACITOR 50V 0.01U	2	
C4919,20		ECWM1H332JZ	F.CAPACITOR 50V 3300P	2	
C4923,24		VCEA0JAC101	E.CAPACITOR 6.3V 100U	2	
C6001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6002		ECEA0JKA330	E.CAPACITOR 6.3V 33U	1	
C6003		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6004		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6005		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6006		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6007,08		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C6009		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C6010		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C6011		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C6012		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C6013		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C6014		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C6015		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C6016,17		ECEA1HKN3R3	E.CAPACITOR 50V 3.3U	2	
C6018		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C6019		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6020		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6021		ECEA16M10	E.CAPACITOR 16V 1U	1	
C6022		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C6023		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C6024		ECEA1HKA4R7	E.CAPACITOR 50V 4.7U	1	
C6025		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C6026		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C6027		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C6028		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C6029		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C6030		EECS5R5T224N	E.CAPACITOR 5.5V 0.22U	1	
C6034		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6035		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C6036		ECEA0JKA330	E.CAPACITOR 6.3V 33U	1	
C6037		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6038		ECEA1AKA470	E.CAPACITOR 10V 47U	1	
C6040		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6041		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C6042		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6043		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6045		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6046		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6049		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C6050,51		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C6053-56		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C6062		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C6063		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C7201		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7202		ECQV1H474JM	P.CAPACITOR 50V 0.47U	1	
C7203		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C7401		ECA1CM471	E.CAPACITOR 16V 470U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7402,03		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7404		ECA1CM101	E.CAPACITOR 16V 100U	1	
C7405,06		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7407,08		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7409		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7410		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7651		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7653		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C7654		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C7655,56		ECEA1HK010	E.CAPACITOR 50V 1U	2	
C7657		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7658		ECQP1H562JZ	P.CAPACITOR 50V 5600P	1	
C7659		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C7661		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C7662		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C7663		ECQV1H823JM	P.CAPACITOR 50V 0.082U	1	
C7664		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C7665,66		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7667		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7670		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7675		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7676,77		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7680		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C7681,82		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7901-03		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	3	
C7904		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7905		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7906		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7907		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7908		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C7909		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7910		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7911-13		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	3	
C7914		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7915		ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C7916		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7917		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7918		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7919		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7920		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7921		ECQB1H102JH	P.CAPACITOR 50V 1000P	1	
C7922		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C7923		ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C7924		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7925		ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C7926		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7927		ECQB1H102JH	P.CAPACITOR 50V 1000P	1	
C7928		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C7929		ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C7930		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7931		ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C7932,33		ECEA1CKN100	E.CAPACITOR 16V 10U	2	
C7934		ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C7935		ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C7937		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7938		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C7939,40		ECEA1HKN0R1	E.CAPACITOR 50V 0.1U	2	
C7941		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C7942		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7943		ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C7945		ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C7946		ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C7947		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C7948		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7949		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C7950-53		ECEA1CKN100	E.CAPACITOR 16V 10U	4	
C7954		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7955-58		ECEA1CK100	E.CAPACITOR 16V 10U	4	
C7960		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7961		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7963		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7964		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7965,66		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C7967		ECEA1CK100	E.CAPACITOR 16V 10U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D301		1SS283	DIODE	1	<R>
D303		MA151WK	DIODE	1	<R>
D305		1SS254	DIODE	1	<R>
D306		MA723VT	DIODE	1	<R>
D307		1SS254	DIODE	1	<R>
D308,09		MA151WK	DIODE	2	<R>
D710		MA3100L	DIODE	1	<R>
D771		MA151WK	DIODE	1	<R>
D772		MA165VT	DIODE	1	<R>
D801-07		1SS254	DIODE	7	<R>
D808		MA151WK	DIODE	1	<R>
D2001-05		1SS254	DIODE	5	<R>
D2501-08		1SS254	DIODE	8	<R>
D2510		1SS254	DIODE	1	<R>
D3002		MA28W-A	DIODE	1	<R>
D3003		1SS254	DIODE	1	<R>
D3301		1SS254	DIODE	1	<R>
D3302		MA151K	DIODE	1	<R>
D3304		MA151K	DIODE	1	<R>
D3403		MA723VT	DIODE	1	<R>
D3408		1SS254	DIODE	1	<R>
D3501		1SS254	DIODE	1	<R>
D3502		MA153	DIODE	1	<R>
D3504		MA151WK	DIODE	1	<R>
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D3904		MA151WK	DIODE	1	<R>
D3906		MA151WA	DIODE	1	<R>
D3908,09		1SS254	DIODE	2	<R>
D4003		MA723VT	DIODE	1	<R>
D4004		1SS254	DIODE	1	<R>
D4501-04		MA141K	DIODE	4	<R>
D4601,02		MA141K	DIODE	2	<R>
D4701,02		1SS254	DIODE	2	<R>
D6001		1SS254	DIODE	1	<R>
D6002		MA723VT	DIODE	1	<R>
D6003		1SS254	DIODE	1	<R>
D6005		MA151WK	DIODE	1	<R>
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D6007		MA151WK	DIODE	1	<R>
D6008		MA151WA	DIODE	1	<R>
D6009		11EQS04	DIODE	1	<R>
D6011,12		11EQS04	DIODE	2	<R>
D6013		MA723VT	DIODE	1	<R>
D6014		1SS254	DIODE	1	<R>
D6015		MA723VT	DIODE	1	<R>
D7202-04		1SS254	DIODE	3	<R>
D7401		MA723VT	DIODE	1	<R>
D7601		MA151WK	DIODE	1	<R>
D7602		MA3082M	DIODE	1	<R>
D7901,02		MA141WK	DIODE	2	<R>
D7904		MA141K	DIODE	1	<R>
D7905		MA141WA	DIODE	1	<R>
D7906		MA141WK	DIODE	1	<R>
D7907		MA141K	DIODE	1	<R>
DL801		EFDUN124A13N	DELAY	1	
DL802		EFDVR645A45A	DELAY	1	
DL803		VLD0147	DELAY	1	
FL301		ELB4M022	FILTER	1	
FL302		VLF0639	FILTER	1	
FL801		VLF1079	FILTER	1	
FL3601		ELB4R031	FILTER	1	
FL3901		VLF1120	FILTER	1	
FL3902		VLF0765	FILTER	1	
FL7901		VLF0702	FILTER	1	
FL7902		ELKAW103EB	FILTER	1	
FL7903		ELKAW101GB	FILTER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
FL7904,05		ELKAW103EB	FILTER	2	
FL7907-11		ELKAW103EB	FILTER	5	
FL7914,15		ELKAW101GB	FILTER	2	
FL7916		VLF0633	FILTER	1	
IC301		VEFH20B	IC	1	<R>
IC302		MN3859S	IC	1	<R>
IC303		AN1358S	IC	1	<R>
IC701		M52014SP	IC	1	<R>
IC801		VCR0383	IC	1	<R>
IC802		M52352FP	IC	1	<R>
IC2001		AN3727S	IC	1	<R>
IC2002		UPD4053BG	IC	1	<R>
IC2501		BA6219B	IC	1	<R>
IC2502		LM358PS	IC	1	<R>
IC2503		XRA6439S	IC	1	<R>
IC2504		LM358PS	IC	1	<R>
IC2505		LM393P	IC	1	<R>
IC3001		AN3581S	IC	1	<R>
IC3002		M52055FP	IC	1	<R>
IC3301		M52083FP	IC	1	<R>
IC3401		NJM2233BMA	IC	1	<R>
IC3403		MN155202VZAM	IC	1	<R>
IC3404		MN1280S	IC	1	<R>
IC3405		UPD4066BG	IC	1	<R>
IC3501		LC74760	IC	1	<R>
IC3502		M52055FP	IC	1	<R>
IC3503		NJM2246DA	IC	1	<R>
IC3504		NJM2233BMA	IC	1	<R>
IC3601		AN6308S	IC	1	<R>
IC3901		M52475AP	IC	1	<R>
IC3902		AN3916	IC	1	<R>
IC3904		AN1393S	IC	1	<R>
IC4001		NJM4565DD	IC	1	<R>
IC4501		XLH7773AKS	IC	1	<R>
IC4601		BA7755AF	IC	1	<R>
IC4701		AN1358S	IC	1	<R>
IC4702		MN4066BS	IC	1	<R>
IC4901		LA7155M	IC	1	<R>
IC6001		MN6755320H3W	IC	1	<R>
IC6002		M38024V1BN	IC	1	<R>
IC6003		MN1280S	IC	1	<R>
IC6005		UPD4052BG	IC	1	<R>
IC6007		M6M80041P	IC	1	<R>
IC6008		TL431CLP	IC	1	<R>
IC7201		UPD4011BC	IC	1	<R>
IC7401		M66006FP	IC	1	<R>
IC7651		AN5421	IC	1	<R>
IC7652		AN5043	IC	1	<R>
IC7653		MN4066BS	IC	1	<R>
IC7901		TB1204F	IC	1	<R>
IC7902		TA2009F	IC	1	<R>
IC7903		M5238FP	IC	1	<R>
J3901,02		VJS1470	CONNECTOR (FEMALE)	2	
K2		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K4		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K6		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K101		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K101		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K102		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K113		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K115		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K118-20		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	3	
K128		ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
K129		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K130,31		ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	2	
K132,33		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
K134		ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
K135,36		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
K138		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K205-07		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	3	
K3003		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K3010		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K3909		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4901,02		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
K6003-05		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	3	
K6016		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7405		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7409,10		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
K7417		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L302		VLQ0188J180	COIL 18UH	1	
L304		VLQ0188J270	COIL 27UH	1	
L305		VLQ0188J101	COIL 100UH	1	
L306		VLQ0188J390	COIL 39UH	1	
L309-11		VLQ0188J330	COIL 33UH	3	
L312		ELESN121JA	COIL 120UH	1	
L312		VLQ0407101K	COIL 100UH	1	
L701		ELESQ680KA	COIL 68UH	1	
L713		VLQ0213K1R2	COIL 1.2UH	1	
L714		ELQT1R2KB	COIL 1.2UH	1	
L718		ELESQ680KA	COIL 68UH	1	
L719		ELESQ8R2KA	COIL 8.2UH	1	
L801,02		ELESE681KA	COIL 680UH	2	
L803		ELESN331KA	COIL 330UH	1	
L804		VLQ0407101K	COIL 100UH	1	
L806		VLQ0407101K	COIL 100UH	1	
L807,08		VLQ0188J150	COIL 15UH	2	
L809		VLQ0188J330	COIL 33UH	1	
L810		VLQ0188J150	COIL 15UH	1	
L811		VLQ0188J151	COIL 150UH	1	
L812		VLQ0188J270	COIL 27UH	1	
L813,14		VLQ0188J150	COIL 15UH	2	
L2001		VLQ0569	COIL	1	
L2002		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L2501		VLP0074	COIL	1	
L2502		ELESN330KA	COIL 33UH	1	
L2503		ELESE102KA	COIL 1000UH	1	
L3001-03		VLQ0188J330	COIL 33UH	3	
L3004		VLQ0398	COIL	1	
L3005-08		VLQ0556	COIL	4	
L3301		VLQ0188J150	COIL 15UH	1	
L3304		VLQ0188J330	COIL 33UH	1	
L3306		VLQ0188J390	COIL 39UH	1	
L3307		VLQ0188J120	COIL 12UH	1	
L3308		VLQ0188J330	COIL 33UH	1	
L3309		VLQ0188J181	COIL 180UH	1	
L3310		VLQ0188J270	COIL 27UH	1	
L3313		ELESE681KA	COIL 680UH	1	
L3315,16		VLQ0188J5R6	COIL 5.6UH	2	
L3318		VLQ0188J330	COIL 33UH	1	
L3323		VLQ0188J330	COIL 33UH	1	
L3401		VLQ0188J150	COIL 15UH	1	
L3404		VLQ0188J220	COIL 22UH	1	
L3405		VLQ0188J330	COIL 33UH	1	
L3412		VLQ0188J330	COIL 33UH	1	
L3415		VLQ0188J120	COIL 12UH	1	
L3501		VLQ0188J330	COIL 33UH	1	
L3502		VLQ0188J5R6	COIL 5.6UH	1	
L3503		VLQ0188J100	COIL 10UH	1	
L3504		VLQ0188J390	COIL 39UH	1	
L3505		VLQ0188J820	COIL 82UH	1	
L3508		VLQ0188J330	COIL 33UH	1	
L3601		VLQEL05S120K	COIL 12UH	1	
L3602,03		VLQEL05S101K	COIL 100UH	2	
L3604		VLQEL05S151K	COIL 150UH	1	
L3605		VLQEL05S820K	COIL 82UH	1	
L3901-04		ELESE101KA	COIL 100UH	4	
L4001,02		ELESE101KA	COIL 100UH	2	
L4501,02		ELESE101KA	COIL 100UH	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L4601		VLQEL07F153J	COIL 15UH	1	
L4701		ELESE471KA	COIL 470UH	1	
L4702		ELESE101KA	COIL 100UH	1	
L4901,02		ELESE102KA	COIL 1000UH	2	
L4903,04		ELESE101KA	COIL 100UH	2	
L4905,06		ELESE102KA	COIL 1000UH	2	
L4907,08		ELESE101KA	COIL 100UH	2	
L4909,10		ELESE102KA	COIL 1000UH	2	
L6001		VLP0083	COIL	1	
L6002		ELESE101KA	COIL 100UH	1	
L6003		VLP0083	COIL	1	
L6007,08		VLP0083	COIL	2	
L6009		ELESE101KA	COIL 100UH	1	
L7402,03		VLQ0188J330	COIL 33UH	2	
L7404		VLQ0540J330	COIL 33UH	1	
L7405		VLQ0188J1R0	COIL 1UH	1	
L7901,02		VLP0083	COIL	2	
P1001		VJP2593	CONNECTOR (MALE)	1	
P1001		VJS2593	CONNECTOR (FEMALE)	1	
P1002		VJP1142	CONNECTOR (MALE)	1	
P1002		VJS1142	CONNECTOR (FEMALE)	1	
P1102		VJS1932	CONNECTOR (FEMALE)	1	
P1103		VJS1142	CONNECTOR (FEMALE)	1	
P1509		VJS1141	CONNECTOR (FEMALE)	1	
P2001		VJP1232T	CONNECTOR (MALE)	1	
P2001		VJS1738T	CONNECTOR (FEMALE)	1	
P2003		VJP3502	CONNECTOR (MALE)	1	
P2003		VJS3482	CONNECTOR (FEMALE)	1	
P2004		VJS3537A015G	CONNECTOR (FEMALE)	1	
P2902		VJS1738T	CONNECTOR (FEMALE)	1	
P3001		VJS3537A020G	CONNECTOR (FEMALE)	1	
P3002		VJP3233A010	CONNECTOR (MALE)	1	
P3002		VJS3366Z010	CONNECTOR (FEMALE)	1	
P3003		VJF0171	CONNECTOR	1	
P3003		VJP1393T	CONNECTOR (MALE)	1	
P3004		VJF0171T	CONNECTOR	1	
P3004		VJP1393T	CONNECTOR (MALE)	1	
P3801		VJF0171T	CONNECTOR	1	
P4001		VJS2331	CONNECTOR (FEMALE)	1	
P4002		VJP1238T	CONNECTOR (MALE)	1	
P4002		VJS1744T	CONNECTOR (FEMALE)	1	
P4003		VJP1230T	CONNECTOR (MALE)	1	
P4003		VJS1230	CONNECTOR (FEMALE)	1	
P6001		VJS3537A014G	CONNECTOR (FEMALE)	1	
P6003		VJP1233T	CONNECTOR (MALE)	1	
P6003		VJS1739T	CONNECTOR (FEMALE)	1	
P6004		VJP1235T	CONNECTOR (MALE)	1	
P6004		VJS1741T	CONNECTOR (FEMALE)	1	
P6502		VJS1744T	CONNECTOR (FEMALE)	1	
P7201		VJP1245T	CONNECTOR (MALE)	1	
P7201		VJS1232T	CONNECTOR (FEMALE)	1	
P7401,02		VJS3537A020G	CONNECTOR (FEMALE)	2	
P7503		VJS3366Z010	CONNECTOR (FEMALE)	1	
P7504		VJS1739T	CONNECTOR (FEMALE)	1	
P9001		VJF0171	CONNECTOR	1	
P9002		VJS1741T	CONNECTOR (FEMALE)	1	
PP2001		VJP3042A012W	CONNECTOR (MALE)	1	
PP2002		VJP3042A010W	CONNECTOR (MALE)	1	
PP3001		VJP3042A009W	CONNECTOR (MALE)	1	
PP3002		VJP3042A012W	CONNECTOR (MALE)	1	
PP3003		VJP3042A013W	CONNECTOR (MALE)	1	
PP3011,12		VJP3042A018W	CONNECTOR (MALE)	2	
PP3013		VJP3042A014W	CONNECTOR (MALE)	1	
PP3021-24		VJP3043A012W	CONNECTOR (MALE)	4	
PP3301		VJP3042A011W	CONNECTOR (MALE)	1	
PP4001-03		VJP3186A018W	CONNECTOR (MALE)	3	
PP4501		VJP3042A017W	CONNECTOR (MALE)	1	
PP7401-03		VJP3043A005W	CONNECTOR (MALE)	3	
PP7404		VJP3043A006W	CONNECTOR (MALE)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
PP7405		VJP3043A004W	CONNECTOR (MALE)	1	
PS301		VJS3042B009W	CONNECTOR (FEMALE)	1	
PS302		VJS3042B012W	CONNECTOR (FEMALE)	1	
PS303		VJS3042B013W	CONNECTOR (FEMALE)	1	
PS701-03		VJS3043B005W	CONNECTOR (FEMALE)	3	
PS704		VJS3043B006W	CONNECTOR (FEMALE)	1	
PS2001		VJS3042B012W	CONNECTOR (FEMALE)	1	
PS2002		VJS3042B010W	CONNECTOR (FEMALE)	1	
PS3021-24		VJS3043B012W	CONNECTOR (FEMALE)	4	
PS3302,03		VJS3042B018W	CONNECTOR (FEMALE)	2	
PS3501		VJS3042F014W	CONNECTOR (FEMALE)	1	
PS3601		VJS3042B011W	CONNECTOR (FEMALE)	1	
PS4001-03		VJS3186B018	CONNECTOR (FEMALE)	3	
PS4701		VJS3042B017W	CONNECTOR (FEMALE)	1	
Q301		MSC2295	TRANSISTOR	1	<R>
Q302		MSB709	TRANSISTOR	1	<R>
Q303,04		MSC2295	TRANSISTOR	2	<R>
Q305		MSD601	TRANSISTOR	1	<R>
Q306		MSC2295	TRANSISTOR	1	<R>
Q307,08		MSB709	TRANSISTOR	2	<R>
Q703		MSD601-S	TRANSISTOR	1	<R>
Q711		MSB709-R	TRANSISTOR	1	<R>
Q712		2SD1996-R	TRANSISTOR	1	<R>
Q713		2SD1328-S	TRANSISTOR	1	<R>
Q771		MSD601	TRANSISTOR	1	<R>
Q772		MSD601-S	TRANSISTOR	1	<R>
Q801		2SA1022	TRANSISTOR	1	<R>
Q802		MSC2295	TRANSISTOR	1	<R>
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Q3913-15		MSD601	TRANSISTOR	3	<R>
Q3916		MSB710	TRANSISTOR	1	<R>
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Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
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Q4708		2SB1378	TRANSISTOR	1	<R>
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Q6003		2SD1915F	TRANSISTOR	1	<R>
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Q6008		2SD1991	TRANSISTOR	1	<R>
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Q7903		2SC3931-C	TRANSISTOR	1	<R>
Q7904-07		2SB1219	TRANSISTOR	4	<R>
Q7908,09		2SC3929	TRANSISTOR	2	<R>
Q7910		2SD1820	TRANSISTOR	1	<R>
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QR3406-08		XN1212	TRANSISTOR-RESISTOR	3	<R>
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QR3904,05		MRN1402	TRANSISTOR-RESISTOR	2	<R>
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QR4001		MRN1403	TRANSISTOR-RESISTOR	1	<R>
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Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
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QR4701-03		MRN1403	TRANSISTOR-RESISTOR	3	<R>
QR4704		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR6001		MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR6002,03		MRN2402	TRANSISTOR-RESISTOR	2	<R>
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QR7601		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR7901,02		UN5213	TRANSISTOR-RESISTOR	2	<R>
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R301		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R303		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R304		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R305,06		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
R307		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R308		ERJ6GMYJ104	M.RESISTOR CH1/10W 100K	1	
R309		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R310		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R311		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R312		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R313		ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R314		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R315		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R316		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R317		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R318		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	1	
R319		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R320		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R321		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R322		ERJ6GMYG123	M.RESISTOR CH1/10W 12K	1	
R323		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R324		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R325		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R326		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R327		ERJ6GMYG432	M.RESISTOR CH1/10W 4.3K	1	
R328		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R329		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R330		ERJ6GMYG432	M.RESISTOR CH1/10W 4.3K	1	
R331		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R332		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R333		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R334		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R335		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R336		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R337		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R338,39		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R340		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R341		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R342		ERJ6GMYJ181	M.RESISTOR CH1/10W 180	1	
R343		ERJ6GMYJ273	M.RESISTOR CH1/10W 27K	1	
R344		ERJ6GMYJ911	M.RESISTOR CH1/10W 910	1	
R345		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R346		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R347		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R348		ERJ6GMYJ273	M.RESISTOR CH1/10W 27K	1	
R349		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R350		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R351		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R352		ERJ6GMYG183	M.RESISTOR CH1/10W 18K	1	
R353		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R354		ERJ6GMYG753	M.RESISTOR CH1/10W 75K	1	
R355		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R356		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R357		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R358		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R359		ERJ6GMYJ181	M.RESISTOR CH1/10W 180	1	
R360,61		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R716		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R719		ERJ6GEYJ105	M.RESISTOR CH1/10W 1M	1	
R720		ERJ6GEYJ682	M.RESISTOR CH1/10W 6.8K	1	
R721		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R724		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R725		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R727		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R728		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R729		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R730		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R736		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R737		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R738		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R739		ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R740		ERJ6GEYJ394	M.RESISTOR CH1/10W 390K	1	
R741		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R742		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R743		ERJ6GEYJ474	M.RESISTOR CH1/10W 470K	1	
R744		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R745		ERJ6GEYG181	M.RESISTOR CH1/10W 180	1	
R746		ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R750		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R757,58		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	2	
R759		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R763		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R772		ERJ6GEYJ271	M.RESISTOR CH1/10W 270	1	
R773		ERJ6GEYJ472	M.RESISTOR CH1/10W 4.7K	1	
R774		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R779		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R781		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R790		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R791		ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R798		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R802		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R803		ERJ6GMYG242	M.RESISTOR CH1/10W 2.4K	1	
R804,05		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R809		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R810,11		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R814		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R815		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R816		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R817		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R818		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R820		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R821,22		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R824		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R825		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	1	
R826		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	1	
R827		ERJ6GMYJ154	M.RESISTOR CH1/10W 150K	1	
R828		ERJ6GMYJ204	M.RESISTOR CH1/10W 200K	1	
R829		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R830		ERJ6GMYJ154	M.RESISTOR CH1/10W 150K	1	
R831		ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	1	
R832		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R833		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R834		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R835,36		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	2	
R837		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R838,39		ERJ6GMYJ681	M.RESISTOR CH1/10W 680	2	
R840		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R841		ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R842,43		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	2	
R844		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R845		ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R846		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R847		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R848		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R849		ERJ6GMYK395	M.RESISTOR CH1/10W 3.9M	1	
R850		ERJ6GMYJ302	M.RESISTOR CH1/10W 3K	1	
R851,52		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R853		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R1001		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R2004		ERJ6GMYJ104	M.RESISTOR CH1/10W 100K	1	
R2005		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R2011		ERJ6GMYG222	M.RESISTOR CH1/10W 2.2K	1	
R2012		ERJ6GMYG392	M.RESISTOR CH1/10W 3.9K	1	
R2013,14		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	2	
R2015		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R2016		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R2018		ERJ6GMYJ104	M.RESISTOR CH1/10W 100K	1	
R2019		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R2501		ERX1SJ1R8	M.RESISTOR 1W 1.8	1	
R2502		ERJ6GMYG112	M.RESISTOR CH1/10W 1.1K	1	
R2503		ERJ6GMYG102	M.RESISTOR CH1/10W 1K	1	
R2504		ERJ6GMYG332	M.RESISTOR CH1/10W 3.3K	1	
R2505		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R2506		ERJ6GMYJ564	M.RESISTOR CH1/10W 560K	1	
R2507		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R2508		VRE0034E512	M.RESISTOR CH 1/10W 5.1K	1	
R2509		VRE0034E472	M.RESISTOR CH 1/10W 4.7K	1	
R2510		ERJ6GMYJ105	M.RESISTOR CH1/10W 1M	1	
R2511		ERJ6GMYJ684	M.RESISTOR CH1/10W 680K	1	
R2513		ERJ6GMYG133	M.RESISTOR CH1/10W 13K	1	
R2514		ERJ6GMYG821	M.RESISTOR CH1/10W 820	1	
R2515		ERG12SJ561	M.RESISTOR 1/2W 560	1	
R2516		ERJ6GMYG473	M.RESISTOR CH1/10W 47K	1	
R2517		ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
R2518		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R2519		ERJ6GMYG432	M.RESISTOR CH1/10W 4.3K	1	
R2520		ERJ6GMYG103	M.RESISTOR CH1/10W 10K	1	
R2521-23		ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R2524		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R2525		ERОS2CKG6800	M.RESISTOR 1/4W 680	1	
R2526		ERJ6GMYJ392	M.RESISTOR CH1/10W 3.9K	1	
R2527		ERJ6GMYJ105	M.RESISTOR CH1/10W 1M	1	
R2528		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R2529		ERJ6GMYJ392	M.RESISTOR CH1/10W 3.9K	1	
R2530		ERJ6GMYJ105	M.RESISTOR CH1/10W 1M	1	
R2531,32		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	2	
R2533		ERJ6GMYJ393	M.RESISTOR CH1/10W 39K	1	
R2534		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R2535		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R2536		ERJ6GMYJ824	M.RESISTOR CH1/10W 820K	1	
R2537		ERJ6GMYJ393	M.RESISTOR CH1/10W 39K	1	
R2538		ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R2539		ERJ6GMYJ681	M.RESISTOR CH1/10W 680	1	
R2540		ERJ6GMYJ105	M.RESISTOR CH1/10W 1M	1	
R2541		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	1	
R3001,02		ERJ6GMYJ750	M.RESISTOR CH1/10W 75	2	
R3003		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R3004		ERJ6GMYJ683	M.RESISTOR CH1/10W 68K	1	
R3005		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3006,07		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R3008		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3009		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3010		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3011		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3012		ERJ6GMYG911	M.RESISTOR CH1/10W 910	1	
R3013		ERJ6GMYG102	M.RESISTOR CH1/10W 1K	1	
R3014		ERJ6GMYG471	M.RESISTOR CH1/10W 470	1	
R3015		ERJ6GMYG102	M.RESISTOR CH1/10W 1K	1	
R3016		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3017		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3018		ERJ6GMYJ392	M.RESISTOR CH1/10W 3.9K	1	
R3019		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R3021		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3022		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R3023		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R3024		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	1	
R3025		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
R3026,27		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R3301		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3302		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R3303		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3304		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R3305		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3306		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R3307		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3308		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3310		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3322		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R3323		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R3324		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3325,26		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R3327		ERJ6GMYJ821	M.RESISTOR CH1/10W 820	1	
R3328		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3333		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3334		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3335		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3336,37		ERJ6GMYJ681	M.RESISTOR CH1/10W 680	2	
R3338		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3339		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3340		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3341		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R3342		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R3345,46		ERJ6GMYJ821	M.RESISTOR CH1/10W 820	2	
R3347		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R3352		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3353		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R3401		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3402		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R3403		ERJ6GMYG361	M.RESISTOR CH 1/10W 360	1	
R3404		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3405		ERJ6GMYG123	M.RESISTOR CH1/10W 12K	1	
R3406		ERJ6GMYG512	M.RESISTOR CH1/10W 5.1K	1	
R3407		ERJ6GMYG272	M.RESISTOR CH1/10W 2.7K	1	
R3408		ERJ6GMYG302	M.RESISTOR CH1/10W 3K	1	
R3409		ERJ6GMYG821	M.RESISTOR CH1/10W 820	1	
R3410		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3411-13		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	3	
R3415		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3417		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3422		ERJ6GMYG333	M.RESISTOR CH1/10W 33K	1	
R3423		ERJ6GMYG683	M.RESISTOR CH1/10W 68K	1	
R3424		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3425		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R3426		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R3427		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3428		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R3429		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3430		ERJ6GMYJ823	M.RESISTOR CH1/10W 82K	1	
R3431		ERJ6GMYG821	M.RESISTOR CH1/10W 820	1	
R3433		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3434		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3435		ERJ6GMYG302	M.RESISTOR CH1/10W 3K	1	
R3436		ERJ6GMYG272	M.RESISTOR CH1/10W 2.7K	1	
R3437		ERJ6GMYG512	M.RESISTOR CH1/10W 5.1K	1	
R3438		ERJ6GMYG123	M.RESISTOR CH1/10W 12K	1	
R3441		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R3442		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3443		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R3444,45		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	2	
R3446,47		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R3463		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3464		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3465		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3466		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3467		ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R3468,69		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	2	
R3470		ERJ6GMYG123	M.RESISTOR CH1/10W 12K	1	
R3471		ERJ6GMYG512	M.RESISTOR CH1/10W 5.1K	1	
R3472		ERJ6GMYG272	M.RESISTOR CH1/10W 2.7K	1	
R3473		ERJ6GMYG302	M.RESISTOR CH1/10W 3K	1	
R3474		ERJ6GMYG821	M.RESISTOR CH1/10W 820	1	
R3475		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3476		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3477,78		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R3479		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3501		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3502		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3503		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3504,05		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R3506		ERJ6GMYJ104	M.RESISTOR CH1/10W 100K	1	
R3507		ERJ6GMYG103	M.RESISTOR CH1/10W 10K	1	
R3508		ERJ6GMYG332	M.RESISTOR CH1/10W 3.3K	1	
R3509-11		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	3	
R3513,14		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	2	
R3515		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3516		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3517		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3518		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3519		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3520		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3521		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3522		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3523		ERJ6GMYJ122	M.RESISTOR CH1/10W 1.2K	1	
R3524		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3525		ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R3526		ERJ6GMYJ470	M.RESISTOR CH1/10W 47	1	
R3601		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3602		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3603		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3604		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3605		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R3606		ERJ6GMYJ821	M.RESISTOR CH1/10W 820	1	
R3607-12		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	6	
R3613		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R3614		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3616		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R3901-05		ERJ6GMYJ750	M.RESISTOR CH1/10W 75	5	
R3906		ERDS1TJ750	C.RESISTOR 1/2W 75	1	
R3908,09		ERJ6GMYJ750	M.RESISTOR CH1/10W 75	2	
R3910,11		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	2	
R3912,13		ERJ6GMYJ151	M.RESISTOR CH1/10W 150	2	
R3914		ERJ6GMYJ750	M.RESISTOR CH1/10W 75	1	
R3915		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R3916,17		ERDS2TJ181	C.RESISTOR 1/4W 180	2	
R3926		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3927,28		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R3929		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R3930		ERJ6GMYJ112	M.RESISTOR CH1/10W 1.1K	1	
R3931		ERJ6GMYJ123	M.RESISTOR CH1/10W 12K	1	
R3932		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R3933		ERJ6GMYJ104	M.RESISTOR CH1/10W 100K	1	
R3934		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R3935		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R3936		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R3938		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R3945		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R3946		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R3950,51		ERJ6GMYJ331	M.RESISTOR CH1/10W 330	2	
R3953		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R3954		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R3955		ERJ6GMYJ123	M.RESISTOR CH1/10W 12K	1	
R3956		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R3957-60		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	4	
R3961		ERJ6GMYJ750	M.RESISTOR CH1/10W 75	1	
R3962		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R3963		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3964		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R3965		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R3966		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R3967		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R3968		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4001,02		ERDS2TJ680	C.RESISTOR 1/4W 68	2	
R4003-08		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	6	
R4009		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R4010		ERJ6GMYG433	M.RESISTOR CH1/10W 43K	1	
R4011		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R4012		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R4013		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R4014		ERJ6GMYG100	M.RESISTOR CH1/10W 10	1	
R4015		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R4020		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R4021		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R4022		ERJ6GMYJ273	M.RESISTOR CH1/10W 27K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4028		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R4029,30		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R4033		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R4034		ERJ6GMYG393	M.RESISTOR CH1/10W 39K	1	
R4035		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R4036		ERJ6GMYG393	M.RESISTOR CH1/10W 39K	1	
R4501,02		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4503		ERJ3GEYG223	M.RESISTOR CH1/16W 22K	1	
R4504,05		ERJ3GEYJ393	M.RESISTOR CH1/16W 39K	2	
R4506,07		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	2	
R4508		ERJ3GEYG224	M.RESISTOR CH1/16W 220K	1	
R4509		ERJ3GEYJ622	M.RESISTOR CH 1/16W 6.2K	1	
R4511		ERJ3GEYG273	M.RESISTOR CH1/16W 27K	1	
R4512		VRE0071E163	M.RESISTOR 16K	1	
R4513		ERJ3GEYG103	M.RESISTOR CH1/16W 10K	1	
R4514,15		ERJ3GEYJ223	M.RESISTOR CH1/16W 22K	2	
R4518,19		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4522		ERJ3GEYJ225	M.RESISTOR CH1/16W 2.2M	1	
R4527		VRE0071E333	M.RESISTOR 33K	1	
R4528		VRE0071E153	M.RESISTOR 15K	1	
R4529		ERJ3GEYG562	M.RESISTOR CH1/16W 5.6K	1	
R4530		ERJ3GEYJ334	M.RESISTOR CH1/16W 330K	1	
R4534		ERJ3GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R4535		ERJ3GEYJ104	M.RESISTOR CH1/16W 100K	1	
R4539		ERJ3GEYJ104	M.RESISTOR CH1/16W 100K	1	
R4541		ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R4542		ERJ3GEYJ222	M.RESISTOR CH1/16W 2.2K	1	
R4543		ERJ3GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R4551,52		ERJ3GEYJ393	M.RESISTOR CH1/16W 39K	2	
R4553,54		ERJ3GEYJ273	M.RESISTOR CH1/16W 27K	2	
R4558		ERJ3GEYG224	M.RESISTOR CH1/16W 220K	1	
R4561		ERJ3GEYG273	M.RESISTOR CH1/16W 27K	1	
R4562		VRE0034E10C	M.RESISTOR CH 1/10W 1	1	
R4563		ERJ3GEYG272	M.RESISTOR CH1/16W 2.7K	1	
R4568,69		ERJ3GEYJ273	M.RESISTOR CH1/16W 27K	2	
R4573		ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R4577		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	1	
R4578		VRE0071E473	M.RESISTOR 47K	1	
R4581		ERJ3GEYJ104	M.RESISTOR CH1/16W 100K	1	
R4583		ERJ3GEYJ102	M.RESISTOR CH1/16W 1K	1	
R4584		ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R4585		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4586		ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R4587,88		ERJ3GEYJ273	M.RESISTOR CH1/16W 27K	2	
R4591		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	1	
R4592		ERJ3GEYJ563	M.RESISTOR CH1/16W 56K	1	
R4593		ERJ3GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R4594		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	1	
R4596		ERJ3GEYG473	M.RESISTOR CH1/16W 47K	1	
R4597		ERJ3GEYJ103	M.RESISTOR CH1/16W 10K	1	
R4598,99		ERJ3GEYG104	M.RESISTOR CH1/16W 100K	2	
R4603		ERJ3GEYG183	M.RESISTOR CH1/16W 18K	1	
R4606		ERJ3GEYJ562	M.RESISTOR CH1/16W 5.6K	1	
R4610		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	1	
R4611		ERJ3GEYJ101	M.RESISTOR CH1/16W 100	1	
R4612		ERJ3GEYJ331	M.RESISTOR CH1/16W 330	1	
R4613		ERJ3GEYJ394	M.RESISTOR CH1/16W 390K	1	
R4615		ERJ3GEYJ133	M.RESISTOR CH1/16W 13K	1	
R4616		ERJ3GEYJ105	M.RESISTOR CH1/16W 1M	1	
R4638		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4649		ERJ3GEYJ470	M.RESISTOR CH1/16W 47	1	
R4651		ERJ3GEYJ101	M.RESISTOR CH1/16W 100	1	
R4652		ERJ3GEYJ223	M.RESISTOR CH1/16W 22K	1	
R4653		ERJ3GEYJ221	M.RESISTOR CH1/16W 220	1	
R4654		ERJ3GEYJ223	M.RESISTOR CH1/16W 22K	1	
R4655		ERJ3GEYJ562	M.RESISTOR CH1/16W 5.6K	1	
R4656		ERJ3GEYG243	M.RESISTOR CH1/16W 24K	1	
R4657		ERJ3GEYJ392	M.RESISTOR CH1/16W 3.9K	1	
R4666		ERJ3GEYJ471	M.RESISTOR CH1/16W 470	1	
R4671		ERJ3GEYG103	M.RESISTOR CH1/16W 10K	1	
R4701		ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	1	
R4702		ERJ6GMYJ821	M.RESISTOR CH1/10W 820	1	
R4703		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R4704,05		ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	2	
R4706		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4707		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R4708		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4709		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R4710		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4711		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R4712		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R4713		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4714		ERJ6GMYJ562	M.RESISTOR CH1/10W 5.6K	1	
R4715		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R4716		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R4717		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R4718		ERJ6GMYG753	M.RESISTOR CH1/10W 75K	1	
R4719		ERJ6GMYG203	M.RESISTOR CH1/10W 20K	1	
R4720,21		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	2	
R4722		ERJ6GMYJ104	M.RESISTOR CH1/10W 100K	1	
R4723		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R4724,25		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	2	
R4901,02		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	2	
R4903,04		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	2	
R4905,06		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	2	
R4907,08		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	2	
R4909,10		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R4915-18		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	4	
R4921		ERJ6GMYG163	M.RESISTOR CH1/10W 16K	1	
R4922,23		ERJ6GMYG433	M.RESISTOR CH1/10W 43K	2	
R4924		ERJ6GMYG163	M.RESISTOR CH1/10W 16K	1	
R4925		ERJ6GMYG473	M.RESISTOR CH1/10W 47K	1	
R4926		ERJ6GMYG223	M.RESISTOR CH1/10W 22K	1	
R4929		ERJ6GMYG223	M.RESISTOR CH1/10W 22K	1	
R4930		ERJ6GMYG473	M.RESISTOR CH1/10W 47K	1	
R6001		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6002,03		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	2	
R6004		EROS2CKG2000	M.RESISTOR 1/4W 200	1	
R6005		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R6006		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6007-09		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	3	
R6010,11		ERJ6GMYG223	M.RESISTOR CH1/10W 22K	2	
R6012		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6013		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6015,16		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6017		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6018		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6019		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6020,21		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6022-24		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	3	
R6025		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	1	
R6027		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R6028		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R6029		ERJ6GMYJ183	M.RESISTOR CH1/10W 18K	1	
R6030		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R6031		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R6032,33		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	2	
R6034		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6035		ERJ6GMYJ104	M.RESISTOR CH1/10W 100K	1	
R6036		ERJ6GMYJ123	M.RESISTOR CH1/10W 12K	1	
R6037,38		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R6039,40		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	2	
R6041		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	1	
R6042		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	1	
R6044-49		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	6	
R6050		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6051		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	1	
R6052		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R6053		ERJ6GMYJ682	M.RESISTOR CH1/10W 6.8K	1	
R6054		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R6055		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R6056,57		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	2	
R6058,59		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6060		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6061,62		ERJ6GMYJ683	M.RESISTOR CH1/10W 68K	2	
R6063		ERJ6GMYJ224	M.RESISTOR CH1/10W 220K	1	
R6064		ERJ6GMYJ104	M.RESISTOR CH1/10W 100K	1	
R6066		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6067		ERJ6GMYJ181	M.RESISTOR CH1/10W 180	1	
R6068-70		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	3	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6071		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R6074		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R6075		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6076		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R6077		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6078		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6079		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6081		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R6082		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R6083-86		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	4	
R6087,88		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	2	
R6089,90		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6091		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6092,93		ERJ6GMYJ271	M.RESISTOR CH1/10W 270	2	
R6094		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6096		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R6097,98		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6099		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R6100		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6101		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6102,03		ERJ6GMYJ272	M.RESISTOR CH1/10W 2.7K	2	
R6104		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R6106,07		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R6108		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6109		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R6110		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6112		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R6115		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6117		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6119,20		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R6122		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6123		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R6124		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R6125		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R7201		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7202		ERDS2TJ105	C.RESISTOR 1/4W 1M	1	
R7203		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R7204		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R7205		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R7206		ERDS2TJ824	C.RESISTOR 1/4W 820K	1	
R7403		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R7405,06		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R7410-12		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	3	
R7413-19		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	7	
R7420		ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R7421-23		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	3	
R7651		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R7654		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R7655		ERJ6GEYJ472	M.RESISTOR CH1/10W 4.7K	1	
R7656		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R7657		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R7658		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R7659		ERJ6GEYJ822	M.RESISTOR CH1/10W 8.2K	1	
R7661		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R7662		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R7663		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R7664		ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R7671,72		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R7673		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R7674		ERJ6GEYF124	M.RESISTOR CH1/10W 120K	1	
R7675		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7676		ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7677		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7678		ERJ6GEYJ223	M.RESISTOR CH1/10W 22K	1	
R7679		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R7680		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R7681,82		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R7683		ERJ6GEYJ563	M.RESISTOR CH1/10W 56K	1	
R7684		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R7691		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7692		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R7693		ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	1	
R7694		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7695		ERJ6GEYJ562	M.RESISTOR CH1/10W 5.6K	1	
R7696		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7901		ERJ3GEYJ471	M.RESISTOR CH1/16W 470	1	
R7902		ERJ3GEYJ821	M.RESISTOR CH1/16W 820	1	
R7903		ERJ3GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R7904		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R7905		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R7906		ERJ6GEYJ150	M.RESISTOR CH1/10W 15	1	
R7907		ERJ6GEYJ561	M.RESISTOR CH1/10W 560	1	
R7908		ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R7909-11		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	3	
R7913-15		ERJ3GEYJ682	M.RESISTOR CH1/16W 6.8K	3	
R7917		ERJ3GEYJ103	M.RESISTOR CH1/16W 10K	1	
R7918-21		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	4	
R7922		ERJ3GEYJ563	M.RESISTOR CH1/16W 56K	1	
R7923		ERJ3GEYJ394	M.RESISTOR CH1/16W 390K	1	
R7924-26		ERJ3GEYJ103	M.RESISTOR CH1/16W 10K	3	
R7927		ERJ3GEYJ562	M.RESISTOR CH1/16W 5.6K	1	
R7928		ERJ3GEYJ102	M.RESISTOR CH1/16W 1K	1	
R7929		ERJ3GEYJ563	M.RESISTOR CH1/16W 56K	1	
R7930		ERJ3GEYJ394	M.RESISTOR CH1/16W 390K	1	
R7931-33		ERJ3GEYJ103	M.RESISTOR CH1/16W 10K	3	
R7934		ERJ3GEYJ562	M.RESISTOR CH1/16W 5.6K	1	
R7935		ERJ3GEYJ102	M.RESISTOR CH1/16W 1K	1	
R7936		ERJ3GEYJ223	M.RESISTOR CH1/16W 22K	1	
R7937		ERJ3GEYJ393	M.RESISTOR CH1/16W 39K	1	
R7938		ERJ3GEYJ222	M.RESISTOR CH1/16W 2.2K	1	
R7939		ERJ3GEYJ224	M.RESISTOR CH1/16W 220K	1	
R7940		ERJ3GEYJ181	M.RESISTOR CH1/16W 180	1	
R7941		ERJ3GEYJ681	M.RESISTOR CH1/16W 680	1	
R7942		ERJ3GEYJ393	M.RESISTOR CH1/16W 39K	1	
R7943		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	1	
R7944		ERJ3GEYJ392	M.RESISTOR CH1/16W 3.9K	1	
R7945		ERJ3GEYJ822	M.RESISTOR CH1/16W 8.2K	1	
R7946,47		ERJ3GEYJ473	M.RESISTOR CH1/16W 47K	2	
R7948		ERJ3GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R7949		ERJ3GEYJ822	M.RESISTOR CH1/16W 8.2K	1	
R7950		ERJ3GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R7951		ERJ3GEYJ822	M.RESISTOR CH1/16W 8.2K	1	
R7956		ERJ3GEYJ822	M.RESISTOR CH1/16W 8.2K	1	
R7957		ERJ3GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R7958,59		ERJ3GEYJ823	M.RESISTOR CH1/16W 82K	2	
R7960,61		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	2	
R7962,63		ERJ3GEYJ101	M.RESISTOR CH1/16W 100	2	
R7964		ERJ3GEYJ272	M.RESISTOR CH1/16W 2.7K	1	
R7969-72		ERJ3GEYJ101	M.RESISTOR CH1/16W 100	4	
R7973-77		ERJ3GEYJ103	M.RESISTOR CH1/16W 10K	5	
R7978		ERJ3GEYJ104	M.RESISTOR CH1/16W 100K	1	
R7979		ERJ3GEYJ152	M.RESISTOR CH1/16W 1.5K	1	
R7980		ERJ3GEYJ104	M.RESISTOR CH1/16W 100K	1	
R7981,82		ERJ3GEYJ102	M.RESISTOR CH1/16W 1K	2	
R7983		ERJ3GEYJ103	M.RESISTOR CH1/16W 10K	1	
R7985		ERJ3GEYJ181	M.RESISTOR CH1/16W 180	1	
R7987		ERJ3GEYJ563	M.RESISTOR CH1/16W 56K	1	
R7988		ERJ3GEYJ121	M.RESISTOR CH1/16W 120	1	
R7989		ERDS2TJ823	C.RESISTOR 1/4W 82K	1	
RX3401		EXBF8E102J	RESISTOR-RESISTOR	1	
SW3901		VSS0385	SWITCH	1	<R>
T703		EIV5EC045A	TRANSFORMER	1	
T704		EIV5EC047A	TRANSFORMER	1	
T711		EIS5EC008A	TRANSFORMER	1	
T4701		VLT0695	TRANSFORMER	1	
T4702		VLT0696	TRANSFORMER	1	
TR		VJS3481	CONNECTOR (FEMALE)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR301		EVN49CA00B23	V.RESISTOR 2K	1	
VR302		EVN49CA00B13	V.RESISTOR 1K	1	
VR303		EVNCBAA00B13	V.RESISTOR 1K	1	
VR304		EVN49CA00B13	V.RESISTOR 1K	1	
VR701		EVNCBAA00B53	V.RESISTOR 5K	1	
VR751		EVNCBAA00B53	V.RESISTOR 5K	1	
VR801,02		EVMEASA00B13	V.RESISTOR 1K	2	
VR803		EVMEASA00B14	V.RESISTOR 10K	1	
VR804		EVN49CA00B53	V.RESISTOR 5K	1	
VR2001-05		EVNCYAA03B54	V.RESISTOR 50K	5	
VR3001-03		EVNCYAA03B23	V.RESISTOR 2K	3	
VR3301		EVMEASA00B24	V.RESISTOR 20K	1	
VR3302		EVN49CA00B54	V.RESISTOR 50K	1	
VR3304,05		EVN49CA00B52	V.RESISTOR 0.5K	2	
VR3307		EVN49CA00B54	V.RESISTOR 50K	1	
VR3901		EVMEASA00B24	V.RESISTOR 20K	1	
VR4002		EVNCYAA03B25	V.RESISTOR 200K	1	
VR4501		EVMECSA00B53	V.RESISTOR 5K	1	
VR4502		EVMEASA00BY4	V.RESISTOR	1	
VR4507		EVMEASA00BY4	V.RESISTOR	1	
VR4509		EVMECSA00BY3	V.RESISTOR	1	
VR4512		EVNCBAA00B52	V.RESISTOR 0.5K	1	
VR4550		EVMECSA00B14	V.RESISTOR 10K	1	
VR4551,52		EVMEASA00B55	V.RESISTOR 500K	2	
VR7660		EVNCBAA00B23	V.RESISTOR 2K	1	
VR7901,02		EVNCBAA00B14	V.RESISTOR 10K	2	
VR7903		EVTEASA00B55	V.RESISTOR 500K	1	
W31		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W32		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W33		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W100		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W101		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W101		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W101		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W102		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W102		ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
W103		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W103		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W104		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W104		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W105		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W105		ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
W106		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W106		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W107		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W107		ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
W108		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W108		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W109		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W109		ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
W110		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W110		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W111		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W111		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W112		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W112		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W113		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W113		ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
W114		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W114		ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
W115		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W115,16		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
W116		ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
W117		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W117		ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
W118		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W118		ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
W119		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
W119		ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
W120		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q9026,27		MSB709	TRANSISTOR	2	<R>
Q9501,02		MSC2295	TRANSISTOR	2	<R>
Q9503		MSB709	TRANSISTOR	1	<R>
Q9504		MSD601	TRANSISTOR	1	<R>
Q9505		MSB709	TRANSISTOR	1	<R>
Q9506		MSD601	TRANSISTOR	1	<R>
Q9507		MSB709	TRANSISTOR	1	<R>
QR9001		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR9004		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR9007		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR9010		MRN1404	TRANSISTOR-RESISTOR	1	<R>
			RESISTORS		
R9001-04		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	4	
R9005		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9006		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R9007,08		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R9009		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R9010-17		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	8	
R9021-23		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	3	
R9024		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R9027-29		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	3	
R9030		ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	1	
R9031		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R9032		ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R9037		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R9038		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R9039		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9040		ERJ6GMYJ681	M.RESISTOR CH1/10W 680	1	
R9041		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R9042		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	1	
R9043		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9044		ERJ6GMYJ681	M.RESISTOR CH1/10W 680	1	
R9045		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9046		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R9047,48		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R9049		ERJ6GMYJ683	M.RESISTOR CH1/10W 68K	1	
R9050		ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R9051,52		ERJ6GMYJ683	M.RESISTOR CH1/10W 68K	2	
R9053		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R9054,55		ERJ6GMYJ683	M.RESISTOR CH1/10W 68K	2	
R9056		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9057		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R9058		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	1	
R9059,60		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R9061		ERJ6GMYJ681	M.RESISTOR CH1/10W 680	1	
R9062		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R9063		ERJ6GMYJ202	M.RESISTOR CH1/10W 2K	1	
R9064		ERJ6GMYJ132	M.RESISTOR CH1/10W 1.3K	1	
R9065		ERJ6GMYJ432	M.RESISTOR CH1/10W 4.3K	1	
R9066		ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	1	
R9067		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R9068-70		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	3	
R9071		ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R9072		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R9073		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9074		ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R9075		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9076		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R9077		ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R9078		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R9079		ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R9080,81		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R9082		ERJ6GMYJ561	M.RESISTOR CH1/10W 560	1	
R9084		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9087		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9088		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R9093		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9094		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9095		ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R9096		ERJ6GMYJ123	M.RESISTOR CH1/10W 12K	1	
R9097		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R9098		ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R9099		ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R9100,01		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	2	
R9104		ERJ6GMYJ222	M.RESISTOR CH1/10W 2.2K	1	
R9105		ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	1	
R9106		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R9107		ERJ6GMYJ392	M.RESISTOR CH1/10W 3.9K	1	
R9108,09		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	2	
R9501,02		ERJ6GMYJ223	M.RESISTOR CH1/10W 22K	2	
R9503,04		ERJ6GMYJ221	M.RESISTOR CH1/10W 220	2	
R9505		ERJ6GMYJ105	M.RESISTOR CH1/10W 1M	1	
R9506		ERJ6GMYJ224	M.RESISTOR CH1/10W 220K	1	
R9507		ERJ6GMYJ681	M.RESISTOR CH1/10W 680	1	
R9508		ERJ6GMYJ471	M.RESISTOR CH1/10W 470	1	
R9509-13		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	5	
R9514,15		ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	2	
R9516		ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R9517,18		ERJ6GMYJ472	M.RESISTOR CH1/10W 4.7K	2	
R9519		ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R9520		ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
VR9001		EVMF6SA00B23	V.RESISTOR 2K	1	
VR9002		EVNCYAA03B54	V.RESISTOR 500K	1	
VR9003		EVMF6SA00B13	V.RESISTOR 1K	1	
VR9004		EVNCYAA03B24	V.RESISTOR 20K	1	
VR9005,06		EVMF6SA00B14	V.RESISTOR 10K	2	
VR9007		EVMF6SA00B13	V.RESISTOR 1K	1	
VR9501		EVMF6SA00B23	V.RESISTOR 2K	1	
X9002		VSX0617	CRYSTAL OSCILLATOR	1	<R>
X9501		VSX0323	CRYSTAL OSCILLATOR	1	<R>
			MISCELLANEOUS		
		VSC4116	SHIELD CASE (MAIN)	1	
		VSC3620	SHIELD CASE (BOTTOM)	1	
		VSC3618	SHIELD CASE (TOP)	1	
		XTN3+6F	SCREW	4	
		VMX1921	SPACER	1	
		VEP03A63A	P.C.BOARD W/COMPONENT		
			VITC		
			CAPACITORS		
C3801		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3802		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3803		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3804		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3805		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3806		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3807		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3808,09		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C3810		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3811		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3812		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3813		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3814		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3815		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3816		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3817		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3818		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3819,20		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	2	
C3821		ECWM1H682JZ	F.CAPACITOR 50V 6800P	1	
C3822		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3823		ECEA1AKA330	E.CAPACITOR 10V 33U	1	
C3824		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3825		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3826		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3827		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3828		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C3829		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C3830		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C3831		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3832		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C3833		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
D3801		1SS254	DIODE	1	<R>
IC3801		MN1870824H3A	IC	1	<R>
IC3802		PST7043	IC	1	<R>
IC3803		BA7062F	IC	1	<R>
IC3804		NJM2235MA	IC	1	<R>
IC3805		UPC311G2	IC	1	<R>
IC3806		AN3916	IC	1	<R>
IC3807		UPC393G2	IC	1	<R>
K3801,02		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
K3804		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L3801,02		ELESE101KA	COIL 100UH	2	
L3803		ELESE221KA	COIL 220UH	1	
P3801		VJP1393T	CONNECTOR (MALE)	1	
Q3801,02		MSD601	TRANSISTOR	2	<R>
			RESISTORS		
R3801		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R3802		ERJ6GEYG123	M.RESISTOR CH1/10W 12K	1	
R3803,04		ERJ6GEYG103	M.RESISTOR CH1/10W 10K	2	
R3805		ERJ6GEYG153	M.RESISTOR CH1/10W 15K	1	
R3806		ERJ6GEYG242	M.RESISTOR CH1/10W 2.4K	1	
R3807		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3808		ERJ6GEYJ334	M.RESISTOR CH1/10W 330K	1	
R3809		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3810		ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R3811		ERJ6GEYJ474	M.RESISTOR CH1/10W 470K	1	
R3812		ERJ6GEYJ393	M.RESISTOR CH1/10W 39K	1	
R3813		ERJ6GEYJ474	M.RESISTOR CH1/10W 470K	1	
R3814		ERJ6GEYG134	M.RESISTOR CH1/10W 130K	1	
R3815		ERJ6GEYG821	M.RESISTOR CH1/10W 820	1	
R3816		ERJ6GEYG182	M.RESISTOR CH1/10W 1.8K	1	
R3817		ERJ6GEYG822	M.RESISTOR CH1/10W 8.2K	1	
R3818		ERJ6GEYG362	M.RESISTOR CH1/10W 3.6K	1	
R3819,20		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R3821		ERJ6GEYG102	M.RESISTOR CH1/10W 1K	1	
R3822		ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R3823		ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R3824		ERJ6GEYG333	M.RESISTOR CH1/10W 33K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3825		ERJ6GEYG103	M.RESISTOR CH1/10W 10K	1	
R3826-28		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	3	
R3829-31		ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R3832,33		ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R3834,35		ERJ6GEYJ101	M.RESISTOR CH1/10W 100	2	
R3836		ERJ6GEYJ471	M.RESISTOR CH1/10W 470	1	
R3837		ERJ6GEYJ472	M.RESISTOR CH1/10W 4.7K	1	
R3838		ERJ6GEYJ183	M.RESISTOR CH1/10W 18K	1	
R3839		ERJ6GEYJ123	M.RESISTOR CH1/10W 12K	1	
R3840		ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
VR3801		EVMEASA00B24	V.RESISTOR 20K	1	
X3801		VSX0389	CRYSTAL OSCILLATOR	1	<R>
		VEP05176G	P.C.BOARD W/COMPONENT		
			HEAD AMP		
			CAPACITORS		
C503		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C505-08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C509		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C510,11		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C512		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C513		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C514		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C515,16		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C517,18		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C519,20		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C521		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C523-25		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C526		VCEA0JAC221	E.CAPACITOR 6.3V 220U	1	
C527		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C531		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C532		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C533,34		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	2	
C535		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C536		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C537		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C538,39		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	2	
C540		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C551		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C552-54		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C555		ECEA0JPK221	E.CAPACITOR 6.3V 220U	1	
C556,57		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C559		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C560,61		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
C562,63		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C564		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C565		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C566		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C567		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C569		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
IC501		AN3336SB	IC	1	<R>
IC502		AN3370K	IC	1	<R>
IC551		BA7743FS	IC	1	<R>

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
K501	VLP0145	COIL	1	
K502	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K503,04	VLP0145	COIL	2	
K505	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K506	VLP0145	COIL	1	
K552	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L501-03	VLQ0540K330	COIL 33UH	3	
L504	VLQ0540J5R6	COIL 5.6UH	1	
L551,52	VLQ0540K330	COIL 33UH	2	
P501	VJS3537B020G	CONNECTOR (FEMALE)	1	
P502	VJS2603	CONNECTOR (FEMALE)	1	
Q501	MSB709	TRANSISTOR	1	<R>
Q502	MSD601	TRANSISTOR	1	<R>
QR501	MRN2404	TRANSISTOR-RESISTOR	1	<R>
		RESISTORS		
R501	ERJ6GMYJ101	M.RESISTOR CH1/10W 100	1	
R502	ERJ6GEYJ152	M.RESISTOR CH1/10W 1.5K	1	
R503	ERJ6GMYG752	M.RESISTOR CH1/10W 7.5K	1	
R504	ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R505	ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R506	ERJ6GMYJ392	M.RESISTOR CH1/10W 3.9K	1	
R507	ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R508	ERJ6GMYJ331	M.RESISTOR CH1/10W 330	1	
R509-12	ERJ6GMYJ101	M.RESISTOR CH1/10W 100	4	
R513	ERJ6GMYJ103	M.RESISTOR CH1/10W 10K	1	
R514	ERJ6GMYJ274	M.RESISTOR CH1/10W 270K	1	
R517	ERJ6GMYJ100	M.RESISTOR CH1/10W 10	1	
R518,19	ERJ6GMYJ101	M.RESISTOR CH1/10W 100	2	
R520	ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R521,22	ERJ6GMYJ822	M.RESISTOR CH1/10W 8.2K	2	
R523	ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	1	
R524	VRE0034E182	M.RESISTOR CH 1/10W 1.8K	1	
R525	VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R526	ERJ6GMYG133	M.RESISTOR CH1/10W 13K	1	
R551	ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R552	ERJ6GMYJ391	M.RESISTOR CH1/10W 390	1	
R553	ERJ6GMYJ273	M.RESISTOR CH1/10W 27K	1	
R554	ERJ6GMYJ243	M.RESISTOR CH1/10W 24K	1	
R556	ERJ6GMYJ333	M.RESISTOR CH1/10W 33K	1	
R557	ERJ6GMYJ182	M.RESISTOR CH1/10W 1.8K	1	
R558	ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R559,60	ERJ6GMYJ152	M.RESISTOR CH1/10W 1.5K	2	
R561	ERJ6GMYJ332	M.RESISTOR CH1/10W 3.3K	1	
R562	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
R563	VRE0034E100	M.RESISTOR CH 1/10W 10	1	
R564	ERJ6GMYJ224	M.RESISTOR CH1/10W 220K	1	
R565	ERJ6GMYJ473	M.RESISTOR CH1/10W 47K	1	
R566	ERJ6GMYJ273	M.RESISTOR CH1/10W 27K	1	
R567	ERJ6GMYJ153	M.RESISTOR CH1/10W 15K	1	
R568	ERJ6GMYJ271	M.RESISTOR CH1/10W 270	1	
R569	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R570	ERJ6GMYJ102	M.RESISTOR CH1/10W 1K	1	
W105-08	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	4	
W110-14	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	5	
W115	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
W116,17	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
		MISCELLANEOUS		
	VSC3714	SHIELD CASE (TOP)	1	
	VSC3478	SHIELD CASE (MAIN)	1	
	VSC3715	SHIELD CASE (BOTTOM)	1	
	VEP06926C	P.C.BOARD W/COMPONENT		
		VR		
		CAPACITORS		
C6501,02	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	2	
C6503,04	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6505	ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C6506	VCEA1HAC3R3	E.CAPACITOR 50V 3.3U	1	
C6507	ECEA1AKA330	E.CAPACITOR 10V 33U	1	
C6508	ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C6509	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6510	ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6511-14	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C6515,16	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C6701	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6702	ECUM1E333KBN	C.CAPACITOR CH 25V 0.033U	1	
C6703	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
D6701	PD410TN1	DIODE	1	<R>
IC6501	VCR0172	IC	1	<R>
IC6701	UPC2800AGR	IC	1	<R>
IR6501	VEK6407	IR RECEIVER	1	
L6501,02	ELESE471KA	COIL 470UH	2	
L6503,04	ELESE221KA	COIL 220UH	2	
L6506,07	ELESE101KA	COIL 100UH	2	
P6502	VJP1251T	CONNECTOR (MALE)	1	
PS6501,02	VJS3405A011A	CONNECTOR (FEMALE)	2	
		RESISTORS		
R6501	ERJ6GEYG332	M.RESISTOR CH1/10W 3.3K	1	
R6502	ERJ6GEYG331	M.RESISTOR CH1/10W 330	1	
R6503,04	ERJ6GEYG271	M.RESISTOR CH1/10W 270	2	
R6505	ERJ6GEYG332	M.RESISTOR CH1/10W 3.3K	1	
R6506	ERJ6GEYG331	M.RESISTOR CH1/10W 330	1	
R6508,09	ERJ6GEYJ222	M.RESISTOR CH1/10W 2.2K	2	
R6511	ERDS2TYJ470	C.RESISTOR 1/4W 47	1	
R6701	ERJ6ENF1363	M.RESISTOR CH 1/10W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
SW6501,02	EVQ11409K	SWITCH	2	<R>
VR6501	EWAKABX15C23	V.RESISTOR 2K	1	
VR6502	EWAKFKX15B24	V.RESISTOR 20K	1	
VR6503	EWANYJX1054J	V.RESISTOR	1	
W101-07	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	7	
W109-11	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	3	
		MISCELLANEOUS		
	VEJ1429	FRONT JACK PLATE	1	
	VYC0599	REC VR COVER UNIT	1	
	VGU4495	REC VR KNOB	2	
	VEP07739G	P.C.BOARD W/COMPONENT		AG-4700E
		TIMER		
		CAPACITORS		
C1701	ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C1702	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1703	ECKD2H471KB	E.CAPACITOR 500V 470P	1	
C1704	ECEA1VKA220	E.CAPACITOR 35V 22U	1	
C1705	ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1706	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7501	ECRHC030E11	TRIMMER CAPACITOR	1	
C7502	ECEA0JKS330	E.CAPACITOR 6.3V 33U	1	
C7503	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7504	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C7505,06	ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	2	
C7507,08	ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	2	
C7509	ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C7510	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C7511	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7512	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7513	ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C7514,15	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7517	ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C7518	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7519-30	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	12	
C7531,32	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7533-36	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	4	
C7537	ECEA1HKA220	E.CAPACITOR 50V 22U	1	
C7538	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7539	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
D1701	MA1270-H	DIODE	1	<R>
D1702	MA185	DIODE	1	<R>
D7501	MA3075	DIODE	1	<R>
D7502-06	MA221	DIODE	5	<R>
D7510	MA221	DIODE	1	<R>
D7512	MA221	DIODE	1	<R>
D7514	MA221	DIODE	1	<R>
D7517,18	MA221	DIODE	2	<R>
D7520	MA221	DIODE	1	<R>
D7522	MA221	DIODE	1	<R>

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D7526	MA221	DIODE	1	<R>
D7531,32	MA221	DIODE	2	<R>
D7534,35	MA221	DIODE	2	<R>
D7546-53	MA221	DIODE	8	<R>
D7556,57	LN81RCPHL	DIODE	2	<R>
D7559,60	LN81RCPHL	DIODE	2	<R>
D7562,63	MA221	DIODE	2	<R>
DP7501	VSL0276-B	DISPLAY TUBE	1	
IC7501	M37502V4BS	IC	1	<R>
IC7502	PST7026	IC	1	<R>
IC7503	XLJ9021B	IC	1	<R>
IC7504	PST7043	IC	1	<R>
IC7505	BA6810S	IC	1	<R>
K7502	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7504,05	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
L7501	VLQEL05S101K	COIL 100UH	1	
L7502	VLQ0188J330	COIL 33UH	1	
P7501,02	VJS3537A020G	CONNECTOR (FEMALE)	2	
P7503	VJP3234B010	CONNECTOR (MALE)	1	
P7504	VJP1246T	CONNECTOR (MALE)	1	
P7505,06	VJS2183	CONNECTOR (FEMALE)	2	
PP7501,02	VJP3405A011W	CONNECTOR (MALE)	2	
Q1701	2SD1994A	TRANSISTOR	1	<R>
Q7501,02	MSD601	TRANSISTOR	2	<R>
QR7501,02	MRN2403	TRANSISTOR-RESISTOR	2	<R>
QR7503	MRN2402	TRANSISTOR-RESISTOR	1	<R>
QR7506	MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR7507	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR7508-11	MRN2404	TRANSISTOR-RESISTOR	4	<R>
QR7512-14	MRN2403	TRANSISTOR-RESISTOR	3	<R>
		RESISTORS		
R1701	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R1702	ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R1703	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R7501,02	ERJ6GEYJ820	M.RESISTOR CH1/10W 82	2	
R7503	ERJ6GEYG223	M.RESISTOR CH1/10W 22K	1	
R7504	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R7505-07	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	3	
R7508	ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R7509	ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R7510	ERJ6GEYK106	M.RESISTOR CH1/10W 10M	1	
R7511	ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R7512,13	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R7514-16	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	3	
R7517,18	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R7519-22	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	4	
R7525,26	ERJ6GEYJ471	M.RESISTOR CH1/10W 470	2	
R7528,29	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R7531-41	ERJ6GEYJ221	M.RESISTOR CH1/10W 220	11	
R7542-56	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	15	
R7557-59	ERJ6GEYJ681	M.RESISTOR CH1/10W 680	3	
R7560-62	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R7564	ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R7565	ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R7566	ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R7567	ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R7568	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7569	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R7570	ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R7571	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7572	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R7573	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7574	ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
RX7501,02	EXBF6E104J	RESISTOR-RESISTOR	2	
RX7503	EXBF8E104J	COMBI.R-R	1	
SW7502,03	ESD172355	SWITCH	2	<R>
SW7504-07	ESD172255	SWITCH	4	<R>
SW7508,09	ESD172355	SWITCH	2	<R>
SW7510	ESD172255	SWITCH	1	<R>
T1701	ETE13K80AY	TRANSFORMER	1	
VR4004	EVNCBAA00B53	V.RESISTOR 5K	1	
W201-34	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	34	
X7501	VSX0506	CRYSTAL OSCILLATOR	1	<R>
X7502	VSX0094	CRYSTAL OSCILLATOR	1	<R>
		MISCELLANEOUS		
	VMD0504	LED HOLDER	4	
	VJF1043	FIP HOLDER	1	
	VEP07739Q	P.C.BOARD W/COMPONENT		AG-4700B
		TIMER		
		CAPACITORS		
C1701	ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C1702	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1703	ECKD2H471KB	E.CAPACITOR 500V 470P	1	
C1704	ECEA1VKA220	E.CAPACITOR 35V 22U	1	
C1705	ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1706	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7501	ECRHC030E11	TRIMMER CAPACITOR	1	
C7502	ECEA0JKS330	E.CAPACITOR 6.3V 33U	1	
C7503	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7504	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C7505,06	ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	2	
C7507,08	ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	2	
C7509	ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C7510	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C7511	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7512	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7513	ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C7514,15	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7517	ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C7518	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7519-30	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	12	
C7531,32	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7533-36	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	4	
C7537	ECEA1HKA220	E.CAPACITOR 50V 22U	1	
C7538	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7539	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
D1701	MA1270-H	DIODE	1	<R>
D1702	MA185	DIODE	1	<R>
D7501	MA3075	DIODE	1	<R>
D7502-06	MA221	DIODE	5	<R>
D7510,11	MA221	DIODE	2	<R>
D7514	MA221	DIODE	1	<R>
D7516-18	MA221	DIODE	3	<R>
D7520-22	MA221	DIODE	3	<R>
D7526	MA221	DIODE	1	<R>
D7534	MA221	DIODE	1	<R>
D7546-53	MA221	DIODE	8	<R>
D7556-60	LN81RCPHL	DIODE	5	<R>
D7562,63	MA221	DIODE	2	<R>
DP7501	VSL0276-B	DISPLAY TUBE	1	
IC7501	M37502V4BS	IC	1	<R>
IC7502	PST7026	IC	1	<R>
IC7503	XLJ9021B	IC	1	<R>
IC7504	PST7043	IC	1	<R>
IC7505	BA6810S	IC	1	<R>
K7502	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7504,05	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
L7501	VLQEL05S101K	COIL 100UH	1	
L7502	VLQ0188J330	COIL 33UH	1	
P7501,02	VJS3537A020G	CONNECTOR (FEMALE)	2	
P7503	VJP3234B010	CONNECTOR (MALE)	1	
P7504	VJP1246T	CONNECTOR (MALE)	1	
P7505,06	VJS2183	CONNECTOR (FEMALE)	2	
PP7501,02	VJP3405A011W	CONNECTOR (MALE)	2	
Q1701	2SD1994A	TRANSISTOR	1	<R>
Q7501,02	MSD601	TRANSISTOR	2	<R>
QR7501,02	MRN2403	TRANSISTOR-RESISTOR	2	<R>
QR7503	MRN2402	TRANSISTOR-RESISTOR	1	<R>

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR7506	MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR7507	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR7508-11	MRN2404	TRANSISTOR-RESISTOR	4	<R>
QR7512-14	MRN2403	TRANSISTOR-RESISTOR	3	<R>
		RESISTORS		
R1701	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	1	
R1702	ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R1703	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R7501,02	ERJ6GEYJ820	M.RESISTOR CH1/10W 82	2	
R7503	ERJ6GEYG223	M.RESISTOR CH1/10W 22K	1	
R7504	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R7505-07	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	3	
R7508	ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R7509	ERJ6GEYJ331	M.RESISTOR CH1/10W 330	1	
R7510	ERJ6GEYK106	M.RESISTOR CH1/10W 10M	1	
R7511	ERJ6GEYJ224	M.RESISTOR CH1/10W 220K	1	
R7512,13	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	2	
R7514-16	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	3	
R7517,18	ERJ6GEYJ473	M.RESISTOR CH1/10W 47K	2	
R7519-22	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	4	
R7525,26	ERJ6GEYJ471	M.RESISTOR CH1/10W 470	2	
R7527-29	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	3	
R7531-41	ERJ6GEYJ221	M.RESISTOR CH1/10W 220	11	
R7542-56	ERJ6GEYJ332	M.RESISTOR CH1/10W 3.3K	15	
R7557-59	ERJ6GEYJ681	M.RESISTOR CH1/10W 680	3	
R7560-62	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	3	
R7564	ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R7565	ERJ6GEYJ392	M.RESISTOR CH1/10W 3.9K	1	
R7566	ERJ6GEYJ104	M.RESISTOR CH1/10W 100K	1	
R7567	ERJ6GEYJ272	M.RESISTOR CH1/10W 2.7K	1	
R7568	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7569	ERJ6GEYJ101	M.RESISTOR CH1/10W 100	1	
R7570	ERJ6GEYJ681	M.RESISTOR CH1/10W 680	1	
R7571	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7572	ERJ6GEYJ102	M.RESISTOR CH1/10W 1K	1	
R7573	ERJ6GEYJ103	M.RESISTOR CH1/10W 10K	1	
R7574	ERJ6GEYJ221	M.RESISTOR CH1/10W 220	1	
RX7501,02	EXBF6E104J	RESISTOR-RESISTOR	2	
RX7503	EXBF8E104J	COMBI.R-R	1	
SW7501	ESD172255	SWITCH	1	<R>
SW7502,03	ESD172355	SWITCH	2	<R>
SW7504-07	ESD172255	SWITCH	4	<R>
SW7508,09	ESD172355	SWITCH	2	<R>
SW7510	ESD172255	SWITCH	1	<R>
T1701	ETE13K80AY	TRANSFORMER	1	
VR4004	EVNCBAA00B53	V.RESISTOR 5K	1	
W201-34	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	34	
X7501	VSX0506	CRYSTAL OSCILLATOR	1	<R>
X7502	VSX0094	CRYSTAL OSCILLATOR	1	<R>
		MISCELLANEOUS		
	VMD0504	LED HOLDER	5	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VJF1043	FIP HOLDER	1	
	VEP01558C	P.C.BOARD W/COMPONENT		
		POWER		
		CAPACITORS		
C1103	VCC0021	C.CAPACITOR	1	<!>
C1106	VCC0021	C.CAPACITOR	1	<!>
C1109	VCC0023	C.CAPACITOR	1	<!>
C1110	ECQU2A224MN	P.CAPACITOR 250V 0.22U	1	<!>
C1111	ECQU2A154MNB	P.CAPACITOR 250V 0.15U	1	<!>
C1112	ECEC2GG680	E.CAPACITOR 400V 68U	1	
C1113	ECQE6473KF	P.CAPACITOR 50V	1	
C1114	VCK0106K121	C.CAPACITOR	1	
C1115	ECA1VXLV470	E.CAPACITOR 35V 47U	1	
C1116	ECA1CXLV101	E.CAPACITOR 16V 100U	1	
C1117	ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C1118	ECKF1H271KB	C.CAPACITOR 50V 270P	1	
C1121	ECCD2H101J	C.CAPACITOR 500V 100P	1	
C1123	ECEA1JFE560	E.CAPACITOR 56U	1	
C1124	ECEA1CFE331	E.CAPACITOR 16V 330U	1	
C1125	ECEA1DFZ681	E.CAPACITOR 680U	1	
C1126	ECEA1AFZ681	E.CAPACITOR 10V 680U	1	
C1127	ECEA1JFE470	E.CAPACITOR 47U	1	
C1128	ECEA1CFE121	E.CAPACITOR 16V 120U	1	
C1129	ECEA1DFZ681	E.CAPACITOR 680U	1	
C1130	ECEA1AFZ681	E.CAPACITOR 10V 680U	1	
C1131-34	ECKF1H102ZF	C.CAPACITOR 50V 1000P	4	
C1135,36	ECA1CGE101X	E.CAPACITOR 16V 100U	2	
C1139	ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1140,41	ECA1CGE101X	E.CAPACITOR 16V 100U	2	
D1102	EM1B	DIODE	1	<R><!>
D1103	AP01C	DIODE	1	<R>
D1104	MA178	DIODE	1	<R>
D1105	1SS254	DIODE	1	<R>
D1106	MA4200H	DIODE	1	<R>
D1107	MA723VT	DIODE	1	<R>
D1108	10ELS2	DIODE	1	<R>
D1109	MA185	DIODE	1	<R>
D1110	FMLG12SP	DIODE	1	<R>
D1111	FMBG14L	DIODE	1	<R>
D1112	SV03YS	DIODE	1	<R>
D1115-17	EM1B	DIODE	3	<R>
D1118	MA4056-L	DIODE	1	<R>
D1119	1SS254	DIODE	1	<R>
D1120	MA4120-H	DIODE	1	<R>
D1121,22	1SS254	DIODE	2	<R>
IC1101	STRM6547LF	IC	1	<R><!>
IC1103	SI3120C	IC	1	<R>
IC1104	SI-3050CA	IC	1	<R>
L1101,02	ELF18D221F	COIL 220UH	2	<!>
L1107-09	EXCELSA35	COIL	3	
L1110	VLP0074	COIL	1	
L1111,12	ELESE101KA	COIL 100UH	2	
L1113,14	ELC07B009	COIL	2	
L1115,16	VLP0083	COIL	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P1101		VJS2625	CONNECTOR (FEMALE)	1	<!>
P1102		VJP1930T	CONNECTOR (MALE)	1	
P1103		VJP1149	CONNECTOR (MALE)	1	
Q1101		PC120FY	TRANSISTOR	1	<R><!>
Q1102		2SD1996-R	TRANSISTOR	1	<R>
			RESISTORS		
R1101		ERC12AGM334	S.RESISTOR 1/2W 330K	1	<!>
R1102		VRE0087	M.RESISTOR	1	
R1103		ERG3SJ823	M.RESISTOR 3W 82K	1	
R1104,05		ERDS2FJ224	C.RESISTOR 1/4W 220K	2	
R1106		ERDS2FJ221	C.RESISTOR 1/4W 220	1	
R1109		ERDS2FJ561	C.RESISTOR 1/4W 560	1	
R1110		ERDS2FJ391	C.RESISTOR 1/4W 390	1	
R1111		ERX1SJ1R5	M.RESISTOR 1W 1.5	1	
R1112		ERDS2FJ103	C.RESISTOR 1/4W 10K	1	
R1113		ERDS2FJ682	C.RESISTOR 1/4W 6.8K	1	
R1114		ERDS2FJ101	C.RESISTOR 1/4W 100	1	
R1115		ERDS2TJ271	C.RESISTOR 1/4W 270	1	
R1122		EROS2CKG62R0	M.RESISTOR 1/4W 62.0	1	
R1123		EROS2CKG3001	M.RESISTOR 1/4W 3K	1	
R1124		EROS2CKG20R0	M.RESISTOR 1/4W 20.0	1	
R1125		EROS2CKG1201	M.RESISTOR 1/4W 1.2K	1	
R1126		ERDS1TJ562	C.RESISTOR 1/2W 5.6K	1	
R1127		ERDS2FJ224	C.RESISTOR 1/4W 220K	1	
T1101		VLT0718	TRANSFORMER	1	
			MISCELLANEOUS		
		VJF0318	FUSE HOLDER	2	<!>
		VMZ2212	CAPACITOR COVER	3	<!>
		VEP00T87A	P.C.BOARD W/COMPONENT		
			MECHANISM CONNECTION		
D1501		LN59L.VT	DIODE	1	<R>
IC1501,02		ON1387	IC	2	<R>
P1503		VJS3316A002	CONNECTOR (FEMALE)	1	
P1504		VJS3317A004	CONNECTOR (FEMALE)	1	
P1505		VJS3537B014G	CONNECTOR (FEMALE)	1	
Q1501		PT493F1MN	TRANSISTOR	1	<R>
Q1502		PN205L-NC.VT	TRANSISTOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
SW1501		VES0695	SWITCH	1	<R>
SW1502		VST0176	SWITCH	1	<R>
			MISCELLANEOUS		
		VMD2029	REEL GUIDE	1	